

1 atgaagtctg gctccggagg aggggtccccg acctcgctgt ggggggctcgt gttttctctcc
61 gccgcgctct ctctctggcc gacgagtggg gaaatctgtg ggcccggcat tgacatccgc
121 aacgactatc agcagctgaa gcgcctggaa aactgcacgg tgatcgaggg ctctctccac
181 atcctgctca tctccaaggc cgaggactac cgaagctacc gcttccccc aa gctcaccgtc
241 atcactgagt acttgctgct ctcccgagtc gctggcctcg agagcctggg agacctcttc
301 cccaacctca cagtcatccg tggctggaaa ctcttctaca actacgcact ggtcatcttc
361 gagatgacca atctcaagga tattgggctt tataatctga ggaacattac tcgggggggccc
421 atcaggattg agaagaacgc cgacctctgt tacctctcca ccatagactg gtctctcatc
481 ttggatgcgg tgtccaataa ctacattgtg ggggaacaagc ccccgaggga atgtggggac
541 ctgtgtccag ggacattgga ggagaagccc atgtgtgaga agaccacat caacaatgag
601 tacaactacc gctgctggac cacaatcgc tgccagaaaa tgtgcccaag tgtgtgctgg
661 aagcgagcct gcaccgagaa caacgagtgc tgccaccgg agtgccctggg cagctgccac
721 acaccggacg acaacacaaac ctgcgtggcc tgcagacact actactacaa aggcgtgtgt
781 gtgcctgcct gccgcctgg cacctcagg ttcgagggct ggcgctgtgt ggcgcgcat
841 ttctgcgcca acatcccaa cgctgagagc agtgactcgg atggctctct tatccacgac
901 gatgagtgc tgcaggagt tccctcagg ttcacccgca acagcaccga gagcatgtac
961 tgtatccct gcgaaggccc ctgccccaaa gtctgcggcg atgaagagaa gaaaacgaaa
1021 accatcgatt cggtgacttc tgctcaaatt ctccaaggat gcaccatcct gaagggcaat
1081 ctgcttatta acatccggag aggcaataac attgcctcgg agttggagaa ctctcatggg
1141 ctcatcgagg tggtgaccgg ctacgtgaag atccgccatt ctcatgcctt ggtctctctg
1201 tcttctctga agaaccctcg tctcatctta ggagaggagc agctggaagg gaactactcc
1261 ttctatgtcc tagacaacca gaacttgcag cagctgtggg actggaacca ccggaactctg
1321 accgtcaggt ccggaagat gtactttgct ttcaatccca agctgtgtgt ctccgaaatt
1381 taccgcatgg aggaagtgc cggaaaccaag ggacgccaga gcaaagggga cataaacacc
1441 aggaacaacg gagagcgagc ttctgtgaa agtgatgttc tccgtttcac ctccaccacg
1501 acctggaaga accgaatcat cataacgtgg caccggtacc ggccgcccga ctaccgggat
1561 ctcatcagct tcacagttta ctacaaggag gcaccattta aaaacgttac ggaatatgac
1621 gggcaggatg cctgtggctc caacagctgg aacatgggtg atgtagacct gcctccgaac
1681 aaggagggcg agcctggcat tttactgcat gggctgaagc cctggacca gtatgtgtc
1741 tatgtcaagg ctgtgacct caccatggtg gaaaacgacc atatccgtgg ggccaaaagt
1801 gaaatcctgt acattcgac caatgcttca gtcccttcca tccccctaga tgcctctca
1861 gcatcaaaact ctctctctca gctgattgtg aagtggaatc ctccaactct gcccaatggg
1921 aacttgagtt actacattgt gaggtggcag cggcagcccc aggatgggta cctgtaccgg
1981 cacaactact gctccaaaga caaaatacc atcagaaagt acgccgatgg taccatcgac
2041 gtggaggagg tgacggaaaa tccaagaca gaagtgtgtg gtggtgataa agggccatgc
2101 tgcgcttgcc ctaaaactga agctgagaag caggctgaga aggaggaggc tgagtaccgt
2161 aaagtctttg agaatttcct tcacaattcc atctttgtgc ccaggcccga aaggaggcgg
2221 agagacgtca tgcaagtggc caacacgacc atgtccagcc gaagcaggaa caccacggta
2281 gctgacacct acaatatcac agaccggag gagttcgaga cagagtacc tttctttgag
2341 agcagagtgg ataacaagga gaggactgtc atctccaacc tccggccttt cactctgtac
2401 cgcacgcata tccacagctg caaccacgag cgtgagaagc tgggctgcag cgcctccaac
2461 ttcgtctttg cgagaaccat gccagcagaa ggagcagatg atatccctgg tccggtgacc
2521 tgggagccaa gaccgaaaa ctccatcttt ttaaagtggc cagaacccga gaaccccaac
2581 ggattgatcc taatgtatga aattaaatac gggctcgcaag tcgaggatca gcgggaatgt
2641 gtgtccagac aggagtacag gaagtacgga ggggccaaac tcaaccgtct aaaccaggg
2701 aactatacag cccggattca ggctacctcc ctctctggga atgggtcatg gacagatcct
2761 gtgtctctct atgtccccgc caaaacgacg tatgagaact tcatgcatct gatcattgct
2821 ctgccgggtg ccacctctgt gatcgttggg gggctgggta tcatgctgta tgtcttccat

FIGURE 1A

```

2881 agaaagagaa ataacagcag gttgggcaat ggagtgcctgt atgcttctgt gaaccccgag
2941 tatttcagcg cagctgatgt gtacgtgcct gatgaatggg aggtagctcg agagaagatc
3001 accatgaacc gggagctcgg acaaggggtcc tttgggatgg tctatgaagg agtggccaag
3061 ggtgtggtca aggatgaacc cgaaaccaga gtggccatca agacggtaaa cgaggctgca
3121 agtatgcgtg aaagaatcga gtttctcaac gaggcctcgg tgatgaagga gttcaattgt
3181 caccatgtgg tccggttgct ggggtgtggt tcccaaggcc agcccaccct ggtcatcatg
3241 gaactaatga cacgcggtga tctcaaaagt tatctccggt ctctgaggcc agaagtggag
3301 cagaataatc tagtcctcat tctccgagc ttaagcaaga tgatccagat ggctggagag
3361 attgcagatg gcatggccta cctcaatgcc aacaagttcg tccacagaga ccttgctgct
3421 aggaactgca tggtagccga agatttcaca gtcaaaattg gagatttcgg tatgacacga
3481 gacatctacg agacggacta ctaccggaaa ggcgggaagg gtttgctgcc tgtgcgctgg
3541 atgtctcccg agtccctcaa ggatgggtgc ttcactactc attctgatgt ctggctcttc
3601 ggggtcgtcc tctgggagat cgccacgctg gctgagcagc cctaccaggg cttgtccaac
3661 gagcaagtcc ttcgtttcgt catggagggt ggccttcttg acaagccgga caactgccct
3721 gatatgctgt ttgaacttat gcgcatgtgc tggcagtata accccaagat gcggccctcc
3781 ttcctggaga tcatcggcag catcaaggat gagatggagc ccagcttcca ggaggtctcc
3841 ttctactaca gcgaggagaa caagcctccc gagccagagg agctggagat ggagctggag
3901 atggagcctg agaacatgga gagcgtccca ctggaccctt cggcctcctc agcctccctg
3961 cctctgcctg aaagacactc aggacacaag gctgagaatg gcccggggccc tggcgtgctc
4021 gttctccgcg ccagttttga tgagagacag ccttacgctc acatgaacgg gggacgcgcc
4081 aacgagaggg ccttgccctc gccccagtc tgcacctgct gatcctcgga cacaccgaag
4141 cacgcgccaa cagtaacgtg tgtgccccac tcggtgggcg ggggggaggg gaggggagag
4201 caggttgtaa caatctattc acaagcctcc tgtacctcag tggatcttca gacctgcat
4261 tgctgccac gggagacggc ttctctgcag taaacacatt tgggaccttc cttttttcaa
4321 tatgcaagca gctttttatt tcttttacc gaaccttaaa ctgacatggg cctctgcaaa
4381 ccttaatgac aacacttaat agcaacagga cactcgagaa ttgagtctct tcgttctctg
4441 cctttttctc tcctctgcct tccctctctg ccctctcccc ttccacttcc acgctctcct

```

FIGURE 1B

```

1 mks gsgggsp tslwglvfls aalslwptsg eicgpgidir ndyqqklrle nctviegflh
61 illiskaedy rsyrfpkltv iteylllfrv agleslgdlf pnltvirgwk lfynyalvif
121 emtnlkdigl ynlnrntrga irieknadlc ylstidwsli ldavsnnyiv gnkppkecgd
181 lcpgtleekp mcekttinne ynyrcwttmr cqkmcpsvcg kractennec chpeclgsch
241 tpddnttcva crhyyykgvc vpacppgtyr fegwrcvdrd fcanipnaes sdsdgfvihd
301 decmqecpsg firnstqsmc cipceggpcpk vcgdeekktk tidsvtsaqm lggctilkgn
361 llinirrgnn iaselenfmg lievvtgyvk irhshalvsl sflknrlrlil geeqlegnys
421 fyvldnqnlq qlwdwnhrnl tvrsgkmyfa fnpklc vsei yrmeevtgtk grqskgdint
481 rnngerasce sdvlftrstt twknriiitw hryrppdyrd lisftvyyke apfkntveyd
541 ggdacgsnsw nmvdvdlppn kegepgillh glkpwtqyav yvkavtltmv endhirkaks
601 eilyirtnas vpsipldvls asnsqsliv kwnpptlpng nlsyyivrwq rqpqdgylr
661 hnycskdkip irkyadgtid veevtenpkt evcggdkgpc cacpkteaek qaekeeaeyr
721 kvfenflhns ifvprperrr rdvmqvannt mssrsrnttv adtynitdpe efeteyppffe
781 srvdnkertv isnlrpftly ridihscnhe aeklgcsasn fvfartmpae gaddipgpvt
841 weprpensif lkwpepenpn glilmyeiky gsqvedqrec vsrqeyrkyg gaklnrlnpg
901 nytariqats lsgngswtdp vffvyvaktt yenfmhliia lpvaillivg glvimlyvfh
961 rkransrlgn gvlyasvnpe yfsaadvyvp dewevareki tmnrelgggs fgmvyegvak
1021 gvvkdepetr vaikt vneaa smreriefln easvmkefnc hhvvrllgvv sggqptlvim
1081 elmtrgdlks ylrslrpeve qnnlvlipps lskmiqmage iadgmaylna nkfvhrdlaa
1141 rncmvaedft vkigdfgmtr diyetdyyrk ggkgllpvrw mspeslkdgv ftthsdvwsf
1201 gvvvlweiatl aegpyqglsn eqvlrfvmeg glldkpdncp dmlfelmrnc wqynpkmrps
1261 fleiigsikd emepsfgevs fyyseenkpp epeelemele mepenmesvp ldpsassasl
1321 plperhsgkh aengpgpgvl vlrasfderq pyahmnggra neralplpqs stc

```

FIGURE 2

```

1 gctcattcat ttccactcgg catttctgcc cctcgccggc ctcgcccgcg cccgggactt
61 cggaccagtc tcgccaactg cgctcgcgctc tcccgcgcgc taggctccgg tggctggttc
121 ctccggggat cgggtggcgt ttgtcctcgc ctgcggcgat ttgggctttg ctctctcttc
181 tgtacagttt tctctcttct tctgcatctc tgcgtttgca aatggaggcc gacgacgcgc
241 acagcccgcg ccggcgcgcc cggccttccc gactccgcgc ccccggtggc cgctgctgcc
301 ggcgctgagg ggccgccccg cgccaccctc cttgtccacg ccgctttccg aggatcgctg
361 cctgcgctct tgttttttga cgagagttag gactgagttg gagacttttt ttttcttttt
421 ttctttttct tttttttttt ttttctattt ttgagaaaag ggaatttcgt cccaaataaa
481 aggaatgaag tctggctccg gaggagggtc cccgacctcg ctgtgggggc tctgttttct
541 ctccgcgcgc ctctctctct ggccgacgag tggagaaatc tgtggggccc gcattgacat
601 ccgcaacgac tatcagcagc tgaagcgccg ggaaaactgc acggtgatcg agggcttcc
661 ccacatcctg ctcatctcca aggcggagga ctaccgaagc taccgcttcc ccaagctcac
721 cgtcatcact gactacttgc tgcctctccg agtcgctggc ctcgagagcc tgggagacct
781 cttccccaac ctacacgtca tccgtggctg gaaactcttc tacaactacg cactggctcat
841 cttcgagatg accaatctca aggatattgg gctttataat ctgaggaaca ttactcgggg
901 ggccatcagg attgagaaga acgcgcacct ctgttacctc tccaccatag actggtctct
961 catcttggat gcggtgtcca ataactacat tgtggggaac aagccccga aggaatgtgg
1021 ggacctgtgt ccagggacat tggaggagaa gcccatgtgt gagaagacca ccatcaacaa
1081 tgagtacaac taccgctgct ggaccacaaa tcgctgccag aaaatgtgcc caagtgtgtg
1141 cgggaagcga gcctgcaccg agaacaacga gtgctgccac ccggagtgcc tgggcagctg
1201 ccacacaccg gacgacaaca caacctgcgt ggcctgcaga cactactact acaaaggcgt
1261 gtgtgtgcct gectgcccgc ctggcaccta caggttcgag ggctggcgct gtgtggatcg
1321 cgattttctg gccaacatcc ccaacgctga gagcagtga cggatggct tcgttatcca
1381 cgacgatgag tgcattgcag agtgctccctc aggttccatc cgcaacagca cccagagcat
1441 gtactgtatc ccctgcgaag gcccctgccc caaagtctgc ggcatgaag agaagaaac
1501 gaaaaccatc gattcgggtga cttctgctca aatgctccaa ggatgcacca tcctgaaggg
1561 caatctgctt attaacatcc ggagaggcaa taacattgcc tcggagttag agaacttcat
1621 ggggctcatc gaggtggtga ccggctacgt gaagatccgc cattctcatg ccttggctct
1681 cttgtccttc ctgaagaacc ttcgtctcat cttaggagag gagcagctgg aagggaacta
1741 ctcttcttat gtcctagaca accagaactt gcagcagctg tgggactgga accaccggaa
1801 cctgaccgtc aggtccggaa agatgtactt tgctttcaat cccaagctgt gtgtctccga
1861 aatttaccgc atggaggaag tgaccggaac caagggagcg cagagcaaag gggacataaa
1921 caccaggaac aacggagagc gagcttccgt tgaaagtgat gttctccgtt tcacctccac
1981 cacgacctgg aagaaccgaa tcatcataac gtggcaccgg taccggcgcc cggactaccg
2041 ggatctcatc agcttcacag tttactacaa ggaggcacca tttaaaaacg ttacggaata
2101 tgacgggcag gatgcctgtg gctccaacag ctggaacatg gtggatgtag acctgcctcc
2161 gaacaaggag ggcgagcctg gcattttact gcatgggctg aagccctgga cccagtatgc
2221 tgtctatgtc aaggctgtga ccctcaccat ggtggaaaac gaccatatcc gtggggccaa
2281 aagtgaatc ttgtacattc gcaccaatgc ttcagtcctt tccattcccc tagatgtcct
2341 ctcagcatca aactcttctt ctcagctgat tgtgaagtgg aatcctccaa ctctgcccac
2401 tggtaacttg agttactaca ttgtgaggtg gcagcggcag cccaggatg gttacctgta
2461 ccggcacaca tactgtctca aagacaaaat acccatcaga aagtacgccg atggtacat
2521 cgacgtggag gaggtgacgg aaaatcccaa gacagaagtg tgtggtggtg ataaagggcc

```

Figure 3A

```

2581 atgctgcgct tgcctaaaa ctgaagctga gaagcaggct gagaaggagg aggctgagta
2641 ccgtaaagtc tttgagaatt tccttcacaa ttccatcttt gtgccagggc ccgaaaggag
2701 gcggagagac gtcattgcaag tggccaacac gaccatgtcc agccgaagca ggaacaccac
2761 ggtagctgac acctacaata tcacagaccc ggaggagtcc gagacagagt accctttctt
2821 tgagagcaga gtggataaca aggagaggac tgatcatctcc aacctccggc ctttcaactct
2881 gtaccgcctc gatattccaca gctgcaacca cgaggctgag aagctgggct gcagcgcctc
2941 caacttcgtc tttgcgagaa ccatgccagc agaaggagca gatgatattc ctgggtccgtt
3001 gacctgggag ccaagacccg aaaactccat ctttttaaa gggccagaac ccgagaaccc
3061 caacggattg atcctaattg atgaaattaa atacgggtcg caagtcgagg atcagcggga
3121 atgtgtgtcc agacaggagt acaggaagta cggaggggccc aaactcaacc gtctaaaccc
3181 agggaaactat acagcccggg ttcaggctac ctccctctct ggggaatgggt catggacaga
3241 tcctgtgttc ttctatgtcc ccgccaaaac gacgtatgag aacttcatgc atctgatcat
3301 tgctctgccc gttgccatcc tgctgatcgt tggggggctg gttatcatgc tgtatgtctt
3361 ccatagaaag agaaataaca gcagggtggg caatggagtg ctgtatgctt ctgtgaaccc
3421 cgagtatttc agcgcagctg atgtgtacgt gcctgatgaa tgggaggtag ctcgagagaa
3481 gatcaccatg aaccgggagc tcggacaagg gtcctttggg atggtctatg aaggagtggc
3541 caaggggtgt gtcaaggatg aaccggaaac cagagtggcc atcaagacgg taaacgaggg
3601 tgcaagtatg cgtgaaagaa tcgagtttct caacgaggcc tcggtgatga aggagttcaa
3661 ttgtcaccat gtggtccggt tgctgggtgt ggtatcccaa ggccagccca ccctgggtcat
3721 catggaacta atgacacgcg gtgatctcaa aagttatctc cgtctcttga ggccagaagt
3781 ggagcagaat aatctagtcc tcattcctcc gagcttaagc aagatgatcc agatggctgg
3841 agagattgca gatggcatgg cctacctcaa tgccaacaag ttcgtccaca gagaccttgc
3901 tgctaggaaac tgcatggtag cgaagattt cacagtcaaa attggagatt tcggtatgac
3961 acgagacatc tacgagacgg actactaccg gaaaggcggg aagggggttc tgctgtgctg
4021 ctggatgtct cccgagtccc tcaaggatgg tgtcttctact actcattctg atgtctggct
4081 cttcgggggtc gtcctctggg agatcgccac gctggctgag cagccctacc agggcttgtc
4141 caacgagcaa gttcttcggt tcgtcatgga ggggtggcct ctggacaagc cggacaactg
4201 ccctgatatg ctgtttgaac ttatgcgcac gtgctggcag tataacccca agatgcggcc
4261 ctccttctct gagatcatcg gcagcatcaa ggatgagatg gagccagctc tccaggaggt
4321 ctccttctac tacagcgagg agaacaagcc tcccagacca gaggagctgg agatggagcc
4381 tgagaacatg gagagcgtcc cactggaccc tcggcctcc tcagcctccc tgctctgccc
4441 tgaaagacac tcaggacaca agcctgagaa tggcccgggc cctggcgtgc tcgttctccg
4501 cgccagtttt gatgagagac agccttacgc tcacatgaac ggggggacgc ccaacgagag
4561 ggccttgccct ctgccccagt cctcgacctg ctgatectcg gacacaccga agcacgcgcc
4621 aacagtaacg tgtgtgcgcc cactcggtgg gcgggggggc ggggagggga gagcaggttg
4681 taacaatcta ttcacaagcc tcctgtacct cagtggatct tcagacctgc cattgctgcc
4741 cacgggagac ggcttctctg cagtaaacac atttgggacc ttcctttttt caatatgcaa
4801 gcagcttttt atttctttta cccgaaccct taactgacat gggcctctgc aaaccttaat
4861 gacaacactt aatagcaaca ggacactcga gaattgagtc tcttctgtct ctgccttttt
4921 ctctcctctg ccttccctct ctgcctctct ccttccact tccacgctct cct

```

Figure 3B

```

ID 1: 3727      ct0g ttt gaa ctt atg cgc atg tgc tgg cag tat aac ccc aag atg cgg ccc tcc ttc ctg 3786
                ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
ID 3: 4211      ct0g ttt gaa ctt atg cgc atg tgc tgg cag tat aac ccc aag atg cgg ccc tcc ttc ctg 4270
aa : 1243      l f e l m r m c w q y n p k m r p s f l 1262

ID 1: 3787      gag atc atc ggc agc atc aag gat gag atg gag ccc agc ttc cag gag gtc tcc ttc tac 3846
                ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
ID 3: 4271      gag atc atc ggc agc atc aag gat gag atg gag ccc agc ttc cag gag gtc tcc ttc tac 4330
aa : 1263      e i i g s i k d e m e p s f q e v s f y 1282

ID 1: 3847      tac agc gag gag aac aag cct ccc gag cca gag gag ctg gag atg gag ctg gag atg gag 3906
                ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
ID 3: 4331      tac agc gag gag aac aag cct ccc gag cca gag gag ctg gag atg gag c-- --- --- --- 4379
aa : 1283      y s e e n k p p e p e e l e m e l e m e 1302

ID 1: 3907      gct gag aac atg gag agc gtc cca ctg gac cct tcg gcc tcc tca gcc tcc ctg cct ctg 3966
                ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
ID 3: 4380      -ct gag aac atg gag agc gtc cca ctg gac cct tcg gcc tcc tca gcc tcc ctg cct ctg 4438
aa : 1303      p e n m e s v p l d p s a s s a s l p l 1322

ID 1: 3967      cct gaa aga cac tca gga cac aag gct gag aat ggc ccg ggc cct ggc gtg ctc gtt ctc 4026
                ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
ID 3: 4399      cct gaa aga cac tca gga cac aag gct gag aat ggc ccg ggc cct ggc gtg ctc gtt ctc 4498
aa : 1323      p e r h s g h k a e n g p g p g v l v l 1342

ID 1: 4027      cgc gcc agt ttt gat gag aga cag cct tac gct cac atg aac ggg gga cgc gcc aac gag 4086
                ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
ID 3: 4499      cgc gcc agt ttt gat gag aga cag cct tac gct cac atg aac ggg gga cgc gcc aac gag 4558
aa : 1343      r a s f d e r q p y a h m n g g r a n e 1362

ID 1: 4087      agg gcc ttg cct ctg ccc cag tcc tcg acc tgc tga 4122
                ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
ID 3: 4559      agg gcc ttg cct ctg ccc cag tcc tcg acc tgc tga 4594
aa : 1363      r a l p l p q s s t c * 1373

```

FIGURE 4

```

ID 5: 1      agagtggccatcaagacggtaaacgaggctgcaagtatgCGTgaaagaatcgagtttctc 60
            |||||||||||||||||||||||||||||||||||||||||||||||||||
ID 6: 56632  agagtggccatcaagacggtaaacgaggctgcaagtatgCGTgaaagaatcgagtttctc 56573

ID 5: 61      aacgaggcctcggtgatgaaggagttcaattgtcaccatgtg0gtaagaagccaagatgag 120
            ||||||||||||||||||||||||||||||||||||||| |||||||||||
ID 6: 56572  aacgaggcctcggtgatgaaggagttcaattgtcaccatgtg0gtaagaagccaagatgag 56513

ID 5: 121     acatggacagaaagtatggacagaaaggaccaccctgtatgtccttggccagctacggaa 180
            ||||||||||||||||||||||||||||||||||||||| ||||
ID 6: 56512  acatggacagaaagtatggacagaaaggaccaccctgtatgtccttggccagctac-gaa 56454

ID 5: 181     ttgttgCcttgcCctcttccCagtgggtagtttccCgTtgCattcttgccacccacaga 240
            |||||||||||||||||||||||||||||||||||||||
ID 6: 56453  ttgttgCcttgcCctcttccCagtgggtagtttccCgTtgCattcttgccacccacaga 56394

ID 5: 241     cccttgaggtgggagcctcgccctcgccctcccaccagaactctgctcctggctacaggc 300
            |||||||||||||||||||||||||||||||||||||||
ID 6: 56393  cccttgaggtgggagcctcgccctcgccctcccaccagaactctgctcctggctacaggc 56334

ID 5: 301     cccagcaccaccagttccgagagggcgtaggtcatcatgtgggatgccccctccccctc 360
            |||||||||||||||||||||||||||||||||||||||
ID 6: 56333  cccagcaccaccagttccgagagggcgtaggtcatcatgtgggatgccccctccccctc 56274

ID 5: 361     tgagtccttttcttgattcctccag0gtccggttgctgggtgtggtatcccaaggccagcc 420
            ||||||||||||||||||||||| |||||||||||
ID 6: 56273  tgagtccttttcttgattcctccag0gtccggttgctgggtgtggtatcccaaggccagcc 56214

ID 5: 421     caccctggtcatcatggaactaatgacacgcggtgatctcaaaagttatctccggtctct 480
            |||||||||||||||||||||||||||||||||||
ID 6: 56213  caccctggtcatcatggaactaatgacacgcggtgatctcaaaagttatctccggtctct 56154

ID 5: 481     gaggcc 486
            |||||
ID 6: 56153  gaggcc 56148

```

FIGURE 5

```

1 gaattccaga tggaagctga cttcctgctc agccctatta aaaaaaaaca caggctttcc
61 tgcctctgag ccccttcgcc acaaataact tgagtgccat gcacggaggt gccacttgt
121 ggcttaggtt ctctcagacc ttgtttgtcc ttcagcccct tggggaggag cccaggctac
181 cacctgctgt ccctaagcct aggaccaggt ggagaccatc gaattgcaga tttagacaga
241 attaaccatc acagggcctc ataccatcct ttttaaagga ccaggccttg atggagactg
301 cagtcgccaa ccccatgggt gcttttgcta ctatggaaac actgaaataa ccaacacaca
361 cactggttgt ggatgccact gaacacacac acacacacac acacacacac acacacacac
421 tggttgatgc ctctgaaccc caaaagggtc gcctggaagg aatgggtggct gctctgtcct
481 ccatctcagc cgcacatctg aagtcacccc agccacaggc acctgtcatt gtcacagctg
541 gtccctatgg gcttactctt tctcagcat gctcttattt ttagtcagac accaaagcgc
601 tttattttatt tttagttaga cacatttggc acatttcaag ttttccaact tgtattcgat
661 aaagggaaac aaaggattcc tgtcacctgt cctaattgaa agcttctttg ataaatactt
721 tcggacagtg attcatacta tcagccttcc aaaaggagga aggaaaaaaa aaaaaagaa
781 aagaaaagag cattcttttg agacactctt attcccttgc acttctgatt tgttttttt
841 tttttttttt ttatttcggg tccagagatg gaatgggtca aattacattt gacgtcctca
901 ggaaaccata ctcttggtta aagcagtgcc tgtctcaaat gaaatatggg catggaaatg
961 tgctgcccc tcttggaact acgtctttcc ctacatttct ctcactagcc agcagttgct
1021 gggagtcagg cgccattggg aaatgcccac tggatcccag agtgtggcct gcctttatta
1081 gtaatgtttt gagtttgccg gaggacagac tcttcatttt attggagccc ctagtttgtt
1141 aaatcttgtc ttgacaactg gtatgtagac agatgggtgaa atgcaaggat tctaacaac
1201 agcctttaga ttaagggtgt ggctgggacc aacagtataa tgagagacca gggaacctg
1261 cagtcctccc cagggttcga tgattctacc acattttctg gctgactacc caactctatt
1321 ccaaggcagt cttgatgggg aatgaggctt agcccagcaa aacaagacct tctaacctg
1381 ctcccggagt tgtctttcct aatttaaaac aaacaaggat gtagtttctt caaagctgaa
1441 tgtggttcta aagtgtgtga aatgtgtgtt gatgggtttt taatgatcct agaggaagct
1501 ggcttctcgg tctttctact taatctcaac attttctaag ccgttcttta gagctgcagg
1561 ttcccacagc agctgcaaga ctgtgtatcc tatcagtcaa agccagatgg tagtcctgag
1621 atgggtgggcc attctgttga aaagctttct gtcccctgaa gtttttctcc ctaggaacca
1681 atcctgatga tgggccacga ccaatacact cagcagttgc caggcacagc tggatcccc
1741 ctccagtgtc gctacctact ctagaggccc tgggggtccag cgacttgatg tagcatcctg
1801 atctttttaca gactggaaag tgtggcaact gagaagtatg cgctgagagt caggtgaggg
1861 actcaaacc tcagtcatac tccagataaa actgatcagg acgatgtcct accctacctg
1921 cagcccaagc tgagatgagg ctcccctcct ctcatgtctga catgctagcc tccccagga
1981 ggaggccaca catttttcat tttagaaata tagatcaaga agaaattgta aagaaagaga
2041 actccttgca aatctcacta gggttgcctg atgctgacat cttcaatgtc caatccaatg
2101 tactaacatc agtacaatta agaaagagag aagcagagag agggggagaa ggaagggaag
2161 gagaacggga tggaggggtt gaggaatgag tatgtgtgca cgtgcacaca gaccgctcta
2221 tacaatttag accagtgcaa ggcttctctg aattgcctcc acctcaaac gccttcccc
2281 gctactccca ccttagcttc ttccgcactt tcttccccca ttttaacacg tgggtgcctt
2341 ttcagactca tttggctgta ataaaatatc cagaaaacaa acaaacgaca aaggataaag
2401 gagtttattt ccgtttacaa ttccaggtta cagtccatcg tgggtgggaaa gtcagcagca

```

FIGURE 6A


```

2461 ggaacttcag agaattgggc gcacacacac cacagtcaag agcagagaga aatgcataca
2521 tatttgctgt cttgtttgct ttctcatgtt cagcttggat ttctccattc ttttatagtt
2581 caggactcaa tgcctaggga atgacactgc ccatagtga ctgggttccc ccacatcaat
2641 taacaagaat tgttgaggaa ttgggttggc ttgtggacat gggttttttt tggaggatta
2701 tcttagttaa gctaattgat ataagcagaa ccattcccta ggcaatgatt ggctgtggg
2761 catgtcaaca tttcctagga atgttggcct gtgagtatgt ctgtgccac aagtaagaca
2821 attggctaatt tgatatgaga agggccagcc cactgtaggt ggtaccattc cttaggctgg
2881 agatccttga gctgtaggag agaggagaaa tcaaactgag cacaagcaag tgagcatgtg
2941 tgcattcttc tgctctttga ctgtggatgc tatgtgactg ttgtttgaag tctgcctca
3001 actttcccac agtgatgggc tataacataa ttatatgctg aaatgaattc ctctctctc
3061 taagttgctt tcgttgttgt ttttattaca gcaacagtta aagtagaaca cttattttaa
3121 acctatggaa ggatatatag atagttttaca gcttttagagt tgtagagtg gagaacacta
3181 ctgtaaacag tagtttccag ttctgagatc agtggccagg tgtatacatg ttactcagtc
3241 cactttcagc tctaaaaaaa aaaaaaattg gggctcagcg gttaagagca ctgactgctc
3301 ttccaaaggt cctgagttca aatcccagca accacacggg ggctcacaac caccataaac
3361 taacaaggt ctgatgccct cttctggagc ttctgaagac agctacagtg tactcacata
3421 taataataat aaataaatct tttttttaa tctatcacca tattgcaaag tagtgtcttc
3481 cattcctatc aatatgtgag acccagtttc tcattctttc tttgtttgtt tgtttaagat
3541 tttatttatt cattgtatgt atatgagtac actgtagtgt tacagatggg tgtgggcat
3601 catgtcattg ctgggaatta aattcagtag ctccgctggc tccggccccg ctggctccag
3661 cccaaagatt tatttattgt tagacctttt aaatatatca cataatagtc tttatacaat
3721 agataagtgc tttctcagta ataacctctt aacagagttt ttatttttta tttttaacag
3781 agttttttaa agagccaaca ttcttaacte tgtggctgta tttttgcttg tcttgtttta
3841 aaacaagctc ttgggtgggt gtagtgcaca ccttttagtcc cagcagatac tggcagatcc
3901 ctatgaactg gtcgagagag caagttacag aaaagtcaag gttacacaga gaaacctgac
3961 taactaaggt tgagatctgc tatgtctaga tggcttatct gagctcagtg caaaatggag
4021 gactctatac catctgggct tccccttctc tgaccttgtc taggggactc cctataactc
4081 ctacctggga aaggtcaagt agcctcggaa gaccaacaaa ctctctcttt tccgcagaag
4141 aacccaccca acaagtaccc gggattcctg aaatgcctct ccatacaaat gaggaattcc
4201 aagaacttta aactctaacc aatgattttt atttaccctg aaaactcctt cacactctcc
4261 aaggtcctgg tttaccccaa ataaagtgtt ttcgtacaag cccaccctta gtagaggtat
4321 ggaggtatgc tcacaaacca agatcggcta agagagctgt tttcattgaa gattgttggg
4381 gaaggccttc ttctaaaaga gctgtaacte taagatcctt cgggaaggcc ttctctccct
4441 tccccccact tccccccact agcactcact cccagcagga ccctaactct gtataaccct
4501 cccccccccc ccattctgga cactgtttca tcttcccac ccagtgtgca gtggcatctg
4561 gataacctcc tgactatgtt tcatacagtc aattctgagg aagccccag attagcaagg
4621 ctgaggttct ctggggccta tagaacttgt tgccagggtg tagaacttgt tactgggtag
4681 tgtgggctgg tttgagcaaa cctgggtatc tttggtttca gggtttgggc ccttccggca
4741 gcacctagtg aattccagct gggaagccgt gaaggtaaatt cctgccgttt gcccccccc
4801 cccccccccc ccgggccaac ctggttcctt ctgtggctct tgggaaaccc caatgccaat
4861 gcgcgggact cctaagaaac cagagtcacc ttggaaggaa ggcaagcagt gggccctgg

```

FIGURE 6B

```

4921 aagaaaggct tgtatttggt cctggaatgg tgtgacttgc ctggtcaggt acttctctcg
4981 tttgtccagg gacactccta ggtgggacca aggcccatgt aggcctctact ctacgtaggg
5041 ctagattctt gccctctctt cctttggatg tgggggtctgg ggaaagtcac tttcaccagc
5101 tcttgtcctc acctacgcat gcggaagtga taacatggat gtctctggcc tccactgaca
5161 gctcaggggtg agggcagcct tgtccacact gctctgtgtg agcccagcat ggggctgtgg
5221 tgagaacctg gccagtgtct gtgactgtcg acagcacgct tgcttttgag gacatagcta
5281 accaggagaa gggaagtcct ctgaccgccc actgtgcata ggagggcagg actccctggc
5341 ccacccccac ctccctaggt caactgtctg ccatcagtc tcatgtgggt gtcacttaga
5401 ggctctgcga attgaaagct gcctgttcgc acttggcttt caacttcaca ctgatgttgg
5461 accaagccaa atgtggggcc tggagtctat tctcagagtt tcccaggcca gctgagaaac
5521 gcagcaaagc tgctagcgct atgcactcac agccaccgtg gcactgactt tgtgggtctga
5581 caacgcagag gcaggcagga gactcttgat ccttgagtta gcatttgggc ttttgctttt
5641 ccaatcataa aaaagcccag agacccttgg actcattgcc aagccttgct ctggtacaca
5701 aggtaacaga gaggccagga ccagactttc atgagctcct ggctttctgc aaccagtatt
5761 tgatcagcag gacttctgcc aagtcctcag tagtcccaga cctttttgtt tctttctgca
5821 gccgtaaaaa atggaaaaga gccagactgc ttctggtttc tggtttgctc ctcagtttcc
5881 ccagttgcaa gtagtggcat tcaaaaacct tgctcgagtt ttgatgcctc cgtttcccaa
5941 tttaaataaa tgtgtgtgtg tgtgtgtgtg tgtgtgtgta tgtgagagag agagagagag
6001 agttgaggaa gtcacatgac atcccaaaga cctcttgggc atgctgatag agctcacagg
6061 ttgtccattc ccaccaggag gcttttctgt ttgtctggta cacagctgca gacacatggg
6121 atgaggggtca gatcagcaca ggaagtggca gaaggagag gggtacctga ggtgggtggg
6181 aaaccccagt gcttgggact gctagtaatc aaagtcacct tggaggggag gcaagccagt
6241 gaccactgga agaaaagttt gtctttgggt cttgggtggg gtgacttgac tggtcaggta
6301 cgtcttccat gtgtgcagta aagaaaagtg gctaaggagg ctcaaggctc attaagcttg
6361 gtgaagcaaa ccagacagac acagggactg gggcttgctt gaaggcatat agtcagacat
6421 gcagacagcc aaggatagct ctgaaaagtg cacacacata cacactcaca tgcactatac
6481 acacacacac acatacacta ttctacaca catataccac aaacactata cacataccac
6541 acacatacac tcacacacac tatacacaca ccacacacat atactcacat atactataca
6601 cacacacaca tgcactacac acacatatat acacacatac actctcactc aggagctata
6661 ggctgaggaa agcaagcata cactggaatg gcaggtaagg acaaaatctg tgtaagggc
6721 tggaggtatg gcttagttag tagagaactt ggttgcatgc atgtgggtct gggtaacatc
6781 ccagcactac ataaaatcag gcatggtgtt atacctagta ctagggaagt agaggcagta
6841 gaattggaac ttcaaggcta tgctctgact gctgcagact ctcatggagt ttttgtgaga
6901 atttaaaatt caaattctgg gtttggcatg gtgacctatg cctttaatcc cagccagcat
6961 tcaggaggta gaggcaggca gattactgtg ggtttaaggc tagcctgggt tgtacagtga
7021 gttccaagac aggaatatat agagagagac cctgtttcag aacaaacaaa aataaaactc
7081 aaacttctta caaagaaatg tgaactatca gttcctagcc taagatcacc tgatacacia
7141 gaaaataaaa taccatgtta aaaaaaatca gtagatgccg ttttaaaaaa cagaattata
7201 accaggcagt ggtggcacat gcctttaata aaccagcac ttgggaggca gaggcaggca
7261 gatttttgag tttgaggcca gcctggttta caaagtgagt tccaggacag ccagggtac
7321 acagagaaac cttgtctcaa aaatcaaaa aaaaaaaaaa aaaaaagata gcagtctgag

```

FIGURE 6C

```

7381 aaattagaac tatagctgac ttaaaagaca gcttagatct gtggtcagtg aaagatactg
7441 ctcacaagag actgtatcac ttgagtcac ttgcattaat gtccttagta agtaaataata
7501 ttgagagagg aagtaggtta gtgataggct aagggtggaag gacacagtaa atgaatgtga
7561 agtttctcta aagtacattt atttatattgt gtgaccatgt gtgtgtgtgt ctgtctgtct
7621 gtgcacacca tggcttgccc atgaagggtca aaggacaaca ggtaggaagg agctagaact
7681 ctcttcccc tgtataggac ctagggtatgg agctcaccac agacatcggg tttgggcatc
7741 aggaaccttt accccgagcc tctcacatac ttcttttagga ttcttttaggt tgtaattcaa
7801 aggctctggc accgattgcg gtgatgggtg gttgtataac tcttgatggg gatgggtata
7861 taactgagca tactgaaaga tgtggagtta aatagggtta gtacgtggaa tgtgaataag
7921 ctatctctta ggagatagat gataggaaga taggatagat agatagatag atagatagat
7981 agatagatag atgtgattag atagatagat agatagatag atagatagat agatagatag
8041 agataggtga tagactttac ccacatgtac acatatatag ctgttcagaa acagacgaag
8101 agaaattagt aaactagaat atagatatgg agatattatt caaaggacaa tataaagatg
8161 ggcaaacaag catagagggg ataagtataa tagtaaagga agtttctgtt taaatagaat
8221 tccagaggaa aataacagcg agaattggaag aaaccatct tcaaatatac agctacaatg
8281 tatgggattg gaatagggtt ggtcccatag actcctgtgt ttgaatgctt ggcccacaag
8341 aagtggcact gttaggaggt ttggccttgg tggatgtttg accttgggtg aggaagtata
8401 aactgttagg ggcagacttt gaagtctcct atgctcacgc tatgccatt gtggcacacg
8461 gtctccttct tgttgctgtt ggatcaagat gtagaactct tgggctggtg agatggctca
8521 gtgggtaaga gcaccgact gctcttccga aggtctggag ttcaaattccc agcaaccaca
8581 tgggtggctca caaccacccg taatgagttc tgatgccctc ttctggtgtg tctgaagaca
8641 gctacagtga acttacatat aataaataaa taaataaata aataaataaa taataaatct
8701 ttaaaaaaaa aaagatgtag aactctcagc tccttctcca gtgctatgtc tgcttgatg
8761 ttgccttgct tcctgctctg acaataatgg agtaaaccct tgaaattgta agccagcccc
8821 caattaaatg ttttccttta taaaagtga cttggctcatg gtgtctcttc atagcaatgg
8881 aaaccctaac aaaggcacia tggttaagaa tattccagag ggactggaga gagatggctc
8941 agtgggttaag agcactgttc ttccagaggt cctggagttc aatccccagc aaccacatag
9001 tggctcacia acatttgtaa tgggatctga tgcctctctc tgggtgtgtc aaagactgta
9061 ctcacattca taaaataaat aaatctttta aaaaatttcc agaactgatg aaatacttga
9121 atccacagag atagaaataa agaaaatcca cacctaaaca tagtagagtt ggagactgca
9181 aaagactgat taaggcttta gagtagccag agaggagatg gcttacttac aaaaatggat
9241 actctaacta gtagtctagg gctaactttc tcaaaaatag caatacaagc tcaaaagcag
9301 tacagtaata acctacagaa tgccaaaatt gtagctgctg aacagaaacc gtgtagctag
9361 gagatcattc ctcgagaata aggtctggggc tggagagatg gcttcgtggt taggagccct
9421 tagcgggttat gctcttctct aggacctgcg tcaattccca gcgccacgt caggtagttt
9481 ccaactgcct ttgatcccag ctccaaagtg aacctctaac ctttgggagc acttgcgttc
9541 acgcaagtga acacatacct ccctatacac atacacataa ttaaaataaa aaataaatct
9601 tttttttttt ttttaaagaa taaggctgga gtaaaaacat tttcacaaaa ataaatgtca
9661 ggtttactct cagaaggatg acacaagggg actgtaaaaa ggacacttgt cagaagagaa
9721 gaaaattatc acaaaaatgg tgtcttagtc aggggttttat tgctgtgaag agacactgtg

```

FIGURE 6D

```

9781 aacacagaat tgggggtggc ttatagtttc aggggttcag tccattattg tcatgacaag
9841 aaacatggag gtaggcaggc agacaaagga caggagaagg agctgcgagt tctacatctt
9901 gatccacagg cagccatagg agactatatg ctatactgtg catacctcaa gcataagaga
9961 cctcaaagtc actatgggga atgcttgccc catagtgact caatttctcc aacaaagcca
10021 tacctatcca acaaggccac acctcttaat atagtgtctga atagtgtctgc tccctatgga
10081 ccaagcattc aaacacagga gtctagagtc ttatgagggc cattcctatt ccaaccactg
10141 cagatggtat agaaatcact ggggaagcctg gcagtgggtga cgcatgcctt taatcccagc
10201 acttgggagg cagaggcagg tggatctctg agtttgaggc cagcctgggtc tacagagtga
10261 gttccaggac agccagggtc atacagagaa accctgtctc aaaaaacaaa aaaacaaaaa
10321 caaaaaaaca aaaaaacaaa caaaaagaaa gggagggagg gatgaaggga gagagagaga
10381 gagagagaga gagagagaga gagagagaga gaaagaaatc actgggaaat ggtgagtctg
10441 agggtagaaa tctgtaccag caccaggcag tgatggcaca cacttttaat cccagtactc
10501 aagatctggt ggatgtctga gttaaaggcc agccttatgt acagagtgag ttccagatca
10561 accaaggcta catagaaaaa ccctgtcttg aacatcaaaa caataaaca acataaagtc
10621 catatcagca ttgtttgtaa catgtaatat tagtagttcg taattccagg atggaactaa
10681 aattcacaa acgtcaaagg agtcaaagggt tctccctcca gtgccctca ttgtcgggtga
10741 acttcaagct catctccacc atctcttcag tgacagggtc tggagcaggc tctgctcaat
10801 cttcttgctt ttaataggac caaaggatgg tgactagaca cacctgcac ggcacctgga
10861 aagtgaggtt cccgagatgg ctggctatgc ccaggctctt ggtaccccag ttggccttcc
10921 ttttggcccc tggactctag gtcttgcatc tattctccct tccttggtgt cttcctttgg
10981 acagagttag ttgcaaactc tttgtgtgca atgtgcaggg ttgttttgtc cccacgggtc
11041 aacttaggtt atcctgtgtc ctgtctaaca cctcagtggga ctctattttt ggttcagcat
11101 cttcctattht ggttttcagt agtcaactgaa agtgctggca aacagttaac agtgtcttta
11161 gtaggaatgg ttatctaagg gaccatacta ggtaaagggc tgagatactt catatacata
11221 gcataccctg actgctgtaa agatagaaaa acagactgag atgccctaca cagtctgtgt
11281 ctgtataagc tacacacttt ctgtaatggc caacatcaat ttatctttat cccatagagg
11341 gcctggcttg gagcatgtgt tccagggaact gaatcatttg aggtaggagt gaatactttt
11401 ctttctatcc tcttgcatte ttccagtaaa attaaagctt atcgctatca tgtatgttcc
11461 caagcaatgt ttaattatct gtaaaaagct ttgtatctga gactgcatgg attacagatg
11521 ggaaaggaaa aaaaagtgtt tatttccaca gtgtctcact tccaagaatg gggtgagcta
11581 ttgacaaacc atcacacgaa gacatttttt tttaaagatt tatttattha ttatatgtaa
11641 gtacactgta gttgtcttca gatacaccag aatagggcat cagatctcat tacgggtggt
11701 tgtgagccac catgtggttg ctgggatttg aacttcggac cttcggaaga gcagtcgggt
11761 gctcttacc actgagccat ctcaccagcc ccgacattat tttttttgtt gcagccactc
11821 ataaatggga gaagaatgtt gaaaggaaaa gaaaatgtag gggctggaga gatggctcca
11881 tgggttaatag cactgactgc tcttaccgag gtcctgagtt caattcccag caaccacatg
11941 gtggttcaca accatctgtt acaggatctg atgcccctct ctggtgtgtc tgaacacagc
12001 aagtgtgtgc tcacataaaa taaataaatc ttaaaataga aaaaagaaaa gaaaatgcag
12061 aaaaataata tgaagtctaa aagttcacag cgaaagaggc attttctgca aagttcccaa

```

FIGURE 6E

12121	gcaagtgact	ccatgctggt	tgttgatcag	cattgtgagc	cctcgtgttt	aacattgagc
12181	taccccatat	tccacaagcc	caacgctcct	tcagtgcacat	atgcagcagc	tgcacatcatca
12241	ttgcccata	tctagattct	aagctctagg	tgtgggtggt	tgaataagga	tggctcccat
12301	agactcatgc	caggggaatgg	cattaggagc	tgtggcctcg	tgggaggaag	tatgtcactg
12361	aggggtggct	aataatatag	aagttagtac	caaggactgg	ggtttttgct	gccctaggct
12421	ggaccaagtt	tcttggtgga	atgtggactt	tggattagga	aaatagttga	atggttcaag
12481	tagagcatca	caggccatatac	tggtaagacc	atggaagatg	gtgctgttgg	tgacatgaat
12541	tatgggggtac	acaggtttta	gaggagaaga	attgtaggcc	tagatttttc	aaaccctact
12601	tttaataaagg	gttcttaaac	gctttatcct	ctcttctagc	ccaccaccca	ccagagggag
12661	tggaaaggaa	aggttaatat	agcaaaggag	gggtgtggatc	tgtttagaaa	aagttctttg
12721	gagcaaatacc	aatctgtgtt	accaggatat	cagcagtaca	gttcactcag	aacagcagca
12781	gcagctcgat	ccacttgcaa	acaccattca	tgaatcagca	atggcagggtc	aatccagaag
12841	aaacctcgag	gctctgccaa	gtacaaggaa	gcagcagcaa	gaagctgccca	gaaagaacac
12901	caccagaagt	tcttttgtgg	catttctgtc	tatgaagtca	tatcaaataga	tgactagcaa
12961	agaatggcaa	ggcaagggtgc	tggtagatg	gcttagcagg	taagagcact	gactgtctct
13021	cccaaggtac	tgagttcaaa	tcccagcaac	cacatgggtg	cttacaacca	tcgtaataag
13081	atctgatgcc	ctcttctggt	gtgtctcaag	tcaactacag	tgtacttatg	tataataata
13141	ataaataaat	taaaaaaaaa	aagaatggca	aaccaaacca	tacagcttca	tcagcgaaga
13201	ccagtgtcag	caaaacccaa	tgataaccag	caaataatata	tatcctttcc	aaacatcaca
13261	ttcttgttct	ctcaagtgtc	agcttttagca	aaacatcaca	tgccctttgc	ctagactgct
13321	tctagaaaac	caccgtgtat	ctgttctcag	caaaacatcc	tcccacatgt	ctgcttcagc
13381	aaaaacatcc	tctcataaga	cagtttccag	aaaaacatca	catgacatga	ctgcatctcc
13441	aaagaagcca	gaaatttcca	attcaaagag	tactagtatg	caacctagag	accattcttg
13501	tgatattttg	acaaagatca	tgggtacatt	ctgctcttgt	catgcacaca	gacacacaaa
13561	tctgcctgag	gttaaataga	agagttatga	atgaacatct	ttagaagatt	tgtctctaag
13621	agattttccaa	aaagtttagt	attgactttg	ttgcttgggt	attagtacc	atacttatgc
13681	agatctgtaa	cgaagaggac	caagctaaac	aaggaacata	cagaatgtac	agtttgagga
13741	gaaaaggagc	ccaggggaagt	gtaatggagt	caagtccagt	gcttgaggag	ataaacctga
13801	tgttaaagtgg	aaaggagaag	tggtagacctc	aagccaggac	tccacctagc	taagcttcca
13861	acttctgaga	agtaatcaaa	gaaaagttta	gaactgggtg	tagctgaatt	accttgaatg
13921	ttagcagcac	tcatgagaca	gaggcagcag	gcaggtcact	gagttcaagg	ccagcctggt
13981	gtacagatgg	ggttccagga	cagccaagct	taggcagtga	aggaaaccac	tgaaaacaga
14041	aagctgggtga	agatggattt	gaatgaagag	gcacattcca	ggcccagcag	cagcagaact
14101	tggtagcttt	ggccatattg	ctctggcttt	agagtggagg	gtacaaaaaa	aagagttatg
14161	gaatctccct	ccgtgactaa	ggaaagctga	tggggccagg	tgtgtgtcag	ggatgtttct
14221	gcatggagac	ccagagacct	ttgcttaaa	ttgtgcaggt	aaaaacctgg	attgttgtga
14281	tagtttgaat	gcttggccac	agggagtggc	actattggga	gggtgtggcct	tattgaacga
14341	agcgtggcct	tgttagagga	agtgtgtcac	tgtggaggca	ggactttgaa	gtcatatatg
14401	ctcaagctct	gttcagtgtg	acatacatte	tccttctgat	gcctccagat	caatatgtaa

FIGURE 6F

```

14461 aactctcagc tcctccagca caatgtctcc ttggatgctg ccacccctcc cgccatgatg
14521 ataatggagt gaacctctga aactgtaagt cagccccaat taaatgttat gagttgccat
14581 ggcatgggtg tctattcaca gtgatggaaa acctaactca gacgattgcc ccagaaagcc
14641 cccaagatgt tggatatgcc agagtcattg gatttgtgaa gagggatgct gttaacaggg
14701 agtggaaactg gcccaagaga aataactgtg ttgcagtcaa caaagttgaa aagagttgga
14761 gatctgaaga ctgctttgac atcaggcacg gagatgcaga gtttggagtt tacacagctg
14821 ttttttggtc ttgcttttgt ccagtatttc ccctttcctc ccttttgga tggtgataga
14881 tatcctgtat atgttggaag tatgtgatct tgattttgat tttattccag atcatagtta
14941 agagcttgcc ataagtctta gaacagactt tggactttta agcagggtta agactgatag
15001 actatggaga cttttgaggt aggattgagt gcatttctgg attatgataa agctacaagt
15061 ctgtggggac tgggatgtag aatgtggtgg cttgaaaaag aatggcccc acagacacat
15121 acttgaatgt ttaaggggta tcattagaag gtgtggcctt gttggagtag gtgtggcttt
15181 attagaggaa gtatattatt gggtttgggg ggtggtgagc tttgggtttt gtctttgtgt
15241 atgcctgtat gaggaggtca gatcttttga gactggagtt acaggcaatt gtaagctgcc
15301 atatgggtac tgggaattga acccaggtcc tctggaaaag cagccagttc tcttaaccac
15361 tgagccatct cttcagtcctc gttccaatga atttttgaga agcttttcta gaagtgcctg
15421 aacccagata gacaataaaa acagttgttc tcaacctgtg agttgagaca cctttggggg
15481 ttgcatatca gatatttatt tacattgatt cacaacaatt gtaaaacttt cagttttgaa
15541 gtcgcaatga aataatttta tggttggggg tgtcattaca acatgaagaa ctgtattaaa
15601 gggtcacagc attaggcagg ttgagaatca ctgcaacaaa agaagaattt tgtgccaggt
15661 ggtagtgcca tgtgtcttta atcccagcac tcaggaggca gaggcaggca gatctctgag
15721 ttcgaggcca gcctggtctt tagagtgagt tccaggacag ccaaggctat acagagaaac
15781 cttgtctcaa aaacaaaaca aaacaaaaca acaaaaataa ggtattttgta aaacataccc
15841 tagatccgtt gtgctaagac ataacagcat tccaaatata catagcccaa gtagccaagg
15901 ggtagagct cttatcagct ttgatgagct tgatataagg ggaatttccc tttatcccca
15961 aagatgaagt ggtcttaacc ttcttgcatt ctgtttgctt gttagttaat aggtttattt
16021 ttattttatg tatgtgtgtg ttttgctga atatatgctg tgtaccttaa gtgtacttag
16081 tacatgagga gtccagaaga gggcgccaca tcccacagaa ctggagttac agatggttgt
16141 gagctgctgt gtgggtgcta ggaatcaaac ctgggtcctc cagtgtctct aactgatgag
16201 ccactctctc agccccttcc atgattcttt aaaaagcagt catagtgaag agagtacaag
16261 gttgtgcatt aggacagtaa caccaccaat ccatttctgt aacaagtcag agtaagatga
16321 cagatctttc aaagggacac cagcaactgt ctgggcccct cctgtaggtc cccctaaact
16381 tcactttagt ctggagaaat tccagggtct tcagattact ccagagagct agaaagagaa
16441 gcttttcttg tctcgttttc cgtttgtgtt tataacataa acttttattt atttatttat
16501 ttattttatt atttatttat tatatgtaag tacactgtag ctgtcttcag acactccaga
16561 agagggagtc agatctcgtt acggatggtt gggagccacc atgtggttgc tgggatttga
16621 actcgggacc tttggaagag cagtcaggtg ctcttaacca ctgagccatc tcaccagccc
16681 tataacataa acttttaatt tcactgggaa gacattcaag cagaggtccc aagttctatc
16741 actcagaaca catatacaga tctggacata ttgacatgca catgaaatgc aatggagata
16801 gagagacaga aggatccctg gtacttgctg gccaccaga ctggtagaac cagcaggctc

```

FIGURE 6G

16861	caggtagctt	cccaaccatt	tctccatctt	tgggtccatt	gttgccctgtc	tgaatatctt
16921	tgcagatagt	tttttagaggg	gaaatacagc	aagtaagcag	aatgggtgcag	ggtagagcct
16981	gcacctggaa	agtggagaaa	catcctagag	agacacagcc	ttgcaaggct	ggtccagggg
17041	gtgggcagtg	tacagctgtg	actgcagatg	tcagcacaga	tgctgggtac	ctgattcatg
17101	gcaaccacag	gttgggaggg	cccctacaga	tgttggagcc	ccaggtctga	caatcccagt
17161	ggggtgattt	gtgacgtttg	taataagatc	agatgtgagg	gtagagggtga	gagagagggc
17221	ccaggtagcc	ttctagacct	gtcttttgaa	tctgagttca	gactggacat	tttgggggct
17281	catttccaga	gtcactctcc	tgtgctctgc	tcccatattc	atgagaagag	cactcccatg
17341	ctggcagaac	atgaggccca	ggaagaagac	atggggctct	ccataactca	accccagaga
17401	cctagtgcc	agcaattatt	gctcatagca	gccaaaaaca	tgtaagaaac	tgccccattc
17461	tggcgaaaga	gtaagatgca	tttgactgtg	actgtcacc	attgtcagga	ggccaaagca
17521	tttcttttagc	agctcctcga	gtcaatgaaa	tactgagtgt	actgaggacg	agggcagctg
17581	atgtcctttc	tcactctgtg	tctcagtga	cagaggtcaa	ccaggatcca	aaaagcagta
17641	ttatgtggaa	actcccagaa	agaaaccaga	aaggagtttg	atggtcacga	gactggacac
17701	actgccagag	tcgctgtggc	agcgtcagca	aaagttttca	agtgacttcc	acggaagcat
17761	atttacgacg	acgtacagaa	gaagggcagc	tacttaacag	atgcccacct	accttttaga
17821	acagctaata	agtcacagat	gcctgcggta	ctcccagaac	agaggggcct	tagtagtcag
17881	gcctcacaca	ggaggcagga	agaaaagcat	gcaggaatca	aaccatagcc	taaagtataa
17941	gatgaacatc	caggagccta	aaccactcta	aagaaaatta	catagatcct	ctatgtaaat
18001	taaggagcag	gagagtgagc	tttaagttgt	ttctgcaggt	gcataaatta	tgcaggcact
18061	tcaggcccta	tggagaactt	aaccctcctc	ctcagatgct	ggctgcacgc	ggacttcctg
18121	ccacaggacc	cctgctatga	agtgagtgca	ggaaagaacg	ttttatagt	aagatgcctg
18181	agagacttcc	aggccagggtg	atccaagtca	acacctacag	tgacaagtct	tgttgatggt
18241	ttgtaccctt	gaaatattat	catgagaagg	gcactctatg	cctctagagt	cttctgcccc
18301	caaccctaaa	gccagtcctg	atctgagacg	agaaggagac	agattccagg	gaaggcacac
18361	gctctacagt	gtctggccag	tgttccatag	aaccggcaaa	gtcattaaac	acaagaaaga
18421	actgtaggag	atggaacaat	gtgttgtgat	gacctagatg	gaccttaaa	gactgctctg
18481	tgtgtgtgtg	taactaagga	acctgggtaa	acgatgcgg	ccttaccact	cttctatcca
18541	ttaaaatggt	tatcatgtct	cttcgtgggtg	gtgcacgcct	tttaatccca	gcactcagga
18601	agcagagaca	agaggatctc	tgagtttgag	gccagcctgg	tctctagagt	tcagggtctac
18661	acagaaaagac	cctgccttga	aaccaacca	ccaaccaacc	aaccaatgaa	ccaccataa
18721	cccacagatt	tttgttgggt	gtgcttttgt	tggaaacctcc	ctctcttttc	tcagttttaa
18781	gactccagaa	ccgaagtgag	aacagctggg	catgttactg	tgtgcttggg	atcccagcaa
18841	tggggaagag	gagacaagac	tttcttgga	cttattggta	agctagccta	acttacccta
18901	ggtgagctcc	gggccagtga	gagactctgt	attaaaaaaa	aaaaaagtgg	atgttaaaag
18961	acacctaaagg	ttgtcctctg	gcctccacat	gcatgtacag	acatatgcac	acatgtgtgt
19021	gcacacatga	ctgtttcctc	ttgtttatca	cctgtcctta	tgatttgaga	gaactgtagt
19081	aggcttttcag	atacagaagt	ggattggctt	ggttaaaaat	cttagttcca	ctactggcct
19141	gtgtaaaaaga	tggggaatct	ctgctgagct	aagccatgca	ctatgagaac	agtctctctc
19201	caggccagac	ctctacaaaa	aaaatcccaa	caacaacaac	aacaacacca	ccaccaacaa

FIGURE 6H

```

19261 cacctttgca ggaaggtggt ggtaaaggcc ctagttttaa aatgggtgta catatacaca
19321 ccatgaagtt cagagagtc attcgcaaca ttatttgacc ttcagcacga tttgtttctg
19381 gaactttccc accccattct tgccctcgtt ccccagggtcc tgggtgactgt tattatattg
19441 tatccatact gttgcacagc aagtgtctag aactttctga atctgcagaa cagactcgct
19501 actgatttaa ccatggcctc cctccccca ccttcccct ccccttggct tctgctgacc
19561 accactctac ttcccatctc tccctcggtg gctgttagct acttagtgga agtggaaacca
19621 tattgacttt tgtgactggc ttacttggct tagtataatg ttttcaagg tcaacctgt
19681 cattgagtgc accagtacat tcctaaaacc ctggcactca ggaggctaag gtaggggaac
19741 ccagaccaat ggttttcaac ctctctcggt ttgagggtgac cccacaacc atatttctgt
19801 tcttacttca tagcagtaat tttgctaatt ctatggatca tagtacaat atttttggag
19861 atagaggttt gccaaagggg gtctcaatcc acaggttaag aacttctgat ttagactttt
19921 agttcaggcc aaattacaca gtgagagcct atctctttca tttcctaatt tgaagaaag
19981 aaagagggag ggagggaggg agggaggggg ggggaaggga gggagggag ggagggaggg
20041 aagggagggg ggggaaggag ggaggggaag gagagagaga gagagaaaga gagagagaga
20101 gaaagaaaag gagaaagaaa gggagaaaag gagaaaaggc taggcgtgat gcagctcact
20161 gcagctctgt gagacgcagg caggctccat gtctcccac ttcagccgc aatcagctta
20221 gaggccagcc tgagagataa gagaccctgc ctttaaaaaa caaatagac aatcagctta
20281 gtgggtaaaa gtgtttgtga ccaaagctgc caacctgtgc tggatcccca gaaccacat
20341 ggtggaagga gaaaaccagt tctgcaagc cctccacgtt gtgagccatg gcagtcaggc
20401 atcctcagac agacagacag acagacaaaa tgaataagta cattaacatg tttaaattaa
20461 aaaatggaag gggcagaaaag ggggaaggag cagatggggg cttttgtttc tttgttttgt
20521 gtgtgtgtat ttatgtatat atgtgtgtat atgtatgtat gtatgcatgt atatatgtat
20581 gtattagaga caaggtttct ctgtgtagct ctgactgtcc tgaaacttgc tctagggatg
20641 aaatgcatgc accccctcct cccagctgaa actgacagtc tgattcccta ttgtgcttgt
20701 gtttcttacc agttcctcct ctgctggaca cttggatggc atcttctatg ccactgtgaa
20761 cagagctgca agctttcatt ttgggggtat atactcagaa gtgggggtac tgggtcatat
20821 gaccagtcag agattgttta gtaactacca agttctctac atatttagaa atactatttc
20881 ttcttctttc ttctttcttc tttcttcttt ctctctcttc cttcttcttc ctctctcttc
20941 tctctcttct tcttctcttc ctctctcttc tcttctcttc ctttcttctt tcttctcttc
21001 tcttttcttt ctttcttctt tcttctcttt ctttcttctt tcttcttctt tcttcttctt
21061 ctctctctct cttcttctct cttcttcttc tcttctcttt cttcttcttc cttcttcttc
21121 cctctctctt cttcttctct tcttctcttc tcttctcttt cttcttcttc tcttctcttc
21181 tcttctctct cttcttcttc tcttctcttc tcttctcttc cttcttcttc tcttctcttc
21241 ttctctctct cctctctctc ctctctcttc tcttctcttc tcttctcttc tcttctcttc
21301 gtgttttgtc tacatgtata tcttgcacac cagaaaaagg cactggattc catgggacta
21361 cagttacaga cttgggaggg atgggggtgc tgggtcttga actcagggtc tctggaagaa
21421 cagtgtctct aaccactgag ttaactctct ggctccaata tttcatctct ctctctctct
21481 ctctctctct ctctctctct ctctctctcc ctctctctcc ctctctctcc ctctctctcc
21541 ctctctctct ttctttttta ttttttattt ttctacttat tttcaatagc agccacctcc

```

FIGURE 6I

21601	acagatacaa	agttctctga	ataggccata	aaaatctgag	cttactcttg	agtaatatgt
21661	ggtgaatgga	cggcagagca	tggccttctg	tcttgcttgg	tcctcacaca	ggacacaggt
21721	cctcagacag	gcccaggacc	ctagagctcc	tttgggggag	gggacacagt	ggtgctatga
21781	aagcctgtct	tcttctactt	actctcagtt	cattataaaag	catttcaacc	tgtaaatggg
21841	ttccagggtc	atactattct	gccttaatta	aactaatccc	cacattatga	tcaagaaatc
21901	ccataaaaaat	gatctgtaac	aacatcacac	ataggagata	aatgaatta	atgtgaatca
21961	cacggaaatg	aggaatgaca	attcctgtga	ccctcccaga	ggcccttatc	aaccatagga
22021	aaaaaaaaaag	agctgacatg	ttgatccaaa	tagaggaaaag	aattaggaaa	agcagttaag
22081	gaaagaaaaga	ggcccttaca	gatttacatc	tgcccagataa	agccactcc	aaagcaggag
22141	tcttgcatga	gtgccatgta	ccctaactac	agagcagcag	gggagagatg	ctgaagtgtg
22201	cactgtgccc	tgtgtcatcc	agtcagtggg	caggcatgcc	acgtcaaaca	tttttattaa
22261	cggggcacat	gatcagaaat	atgtggagac	agtgactgga	tagagagtcc	ctgtcattca
22321	tcctggatct	tccaggcaag	actgacacat	cagtttgga	gaatcacata	acagatactg
22381	gaagagggcg	ctggcaagca	gcctatgtgg	aggatagaac	ttgacagcac	tcaggcagag
22441	tcacctttaa	ccaacacctc	aggatttctt	cccaagctcc	cctctgtatc	tcttttgacg
22501	ctgcttcctg	aaatgtcttc	cctctaattg	tgtccctgtg	gactttgggt	gtccctgtg
22561	taggatgggt	ttggtatcga	ctgttctcga	ggctgcgggg	aggagatact	tagcagagtg
22621	ccaagagtcc	tccaggggca	gcctcggatg	atgaccggac	tattcattaa	ctcagaaaaa
22681	aatggtgcct	ggaagcatct	taccaagtgt	agttgttctg	cgctcagggt	atgctcgggg
22741	tatgtagtgt	ttctgctggg	atgcttccct	tctcagagga	gttcagttct	catggtcttt
22801	gtaacgtcag	tgttacattg	ttttaatggc	tacatcattg	ccaccaatgg	ctagcctctc
22861	ctctgtctac	cagccctttc	ctttctcttc	ttcagtgtctg	ggctggaacc	caagactttg
22921	ctcatgctag	actaggcaag	ctactcagcc	ccagccttgt	tcatggcact	gagtgcctcc
22981	atatgcccgg	tgagctctcc	caggctctggc	tttcatttgt	ctcttcacaa	gcctggatgg
23041	tgttggatac	ctgatggccc	ccgggtctct	tctctccctt	cagggcaagg	ggaacatgtg
23101	atctctctct	ctctctctct	ctctctctct	ctctctctct	ctctccctct	ccctctccct
23161	ctccctctcc	ctctccctct	ccctctctca	ttgttactcc	tgcttgtgga	gccaaagcaa
23221	gaaaatgacc	actgaacagt	gaccacgtga	caagttgggg	aaagataagt	agaaaagggg
23281	gcgagaagag	gggaagggaa	ggagaggtaa	gaactatgca	aagaaaggaa	gaaaagggaag
23341	agaaagggga	gggggagaga	aaggaagcag	ggaggaggac	ctctgtacac	ctccaaacta
23401	acccttcaag	atccaaagag	catcttcttc	cctgtggccc	tccagcggcc	cggccttgct
23461	caactctcac	agcaaccctg	agcggagtgc	ttgggtctgc	attgcaccgg	tggggaagcc
23521	gaggcctggg	aggttccaac	ctttgtctag	aagcacctca	tctcccgaga	agatcagcac
23581	tgacagagag	gtcaccacc	tgccctctgag	ggccacctcc	ccagagccca	gagaaggatc
23641	ttacctggga	tctgtgggcg	gccatctaac	ccagaaggca	tgggggtgcc	tggaaatgcc
23701	aggaaaggaa	gtcaggaaca	gctcaggcag	aaatgaaggc	acaaaatggg	ccccacattc
23761	ctggctgaac	tgggatcaag	agtgagcaca	agcttctaag	atctcagggt	ttcttccctc
23821	caacctatct	gctacttggc	ctggaaggag	gatgccca	gccttccctg	cctcacctag
23881	ccttccatca	cctccttgcc	cctctcctct	cttcccttcc	ttctgttttt	cctttccctc
23941	cacccccctcc	ttttctttct	cattcctccc	ttctttcatt	ttcctctacc	cttcttctct

FIGURE 6J

```

24001 ccttttctgt cccccctccc aacaacaaca acaaatccat ggcttttgtt tctaaaatta
24061 tatccgcaca ataacctctc tgccaattcc aggcacacag agccaatgga ccagctccct
24121 ttggataatt caaattgacc ccaagatagc cctaccccac ttgtacctcc tccctttgtt
24181 taagaggttg ctctaagctc tttgtttcct gaccgaaatc cttccatggc ttcctattat
24241 cccagagaag tccacacctg actaagcatt ccacccagcg tctgcagcct tctcaagttt
24301 caatccccat ccttcctggg gtggagtgtc cctgttgtac ctttggtaga gatgactagg
24361 gactcatcag attacaccag gacagttgat gtttggatta gcagcagggg tgtgaggcta
24421 gatgcttatt tgccttgtgg catgcaggac acctgtcagc tgcggagAAC ggctcgccat
24481 accaatttcc cgaagggcct cgggctcttg tgcttccttc tgctatgatg ctagcctcgg
24541 ctgctgccac gtgtgttccc agcctcctgc tctggcccat cttcatctgt ccacagacct
24601 cagtgttgca aacatggctt cttcagatat gtctccctag ggtgcccccg cttcaggaag
24661 tacggctgag agagccatgg ctctttgggt cctggtcact ttgagttcct ccataccagg
24721 agggatgggt tggagctcag agaagacctt gggcatacag tcttgggtgc ctttgtgtcc
24781 aggcaactaa ggcacctcac ccgctatatt ttgcaggaac tttctaagct gggcttaggg
24841 gtggacactg acatagaact tcgaactctg cagctgcctg tggattacag ggaggtaaaa
24901 cggaggctta ccacaatctg ggaagatttt caaccacaag taagtgatac ctggagaggc
24961 tgtgggtctg ggaacctgat gatgggccca gggcctagga actttctgga ccttgatcta
25021 gatttgaagg ctggagtaca cctgaattaa agcttctgtc gtgagattctt gggctctgtg
25081 ataagtttat gctgaaacac gaggtagata gtaaaagatg actgggggca agtggggcgg
25141 acaaaatggg aatctgggat taaagccagg aggactctag gatagctcac acctatccta
25201 aaaaaagaga ggccctggat taagccctgt gtatggctaa ttctggctgt tctgaggaat
25261 ttaaggtaaa gcgctttggg cctaggaagg tctgatgatg attcaccagc ggttgggtcca
25321 ccttcaaaac atcctgccag gggcctgggt tgatggctca cacttttaat cctggcacct
25381 gtgagtttaa ggccagcctg gtctagttta tgagttcaca gcccattcc aaactaacia
25441 aagtaactac atagtaactg aatataagca cgtgtgtaac aggggcacaa tgccagggtg
25501 ggtagctcac gcctttaatc ccagcacttg ggaggcagag gcaggtggat ttctgagttc
25561 aaggccagcc tgggtctacag agtgagttcc aggatagcca ggactacaca gagaaacctt
25621 gtcttaaaaa acaaaaaaca aaaaaaccaa aaaaacaaaa caaaacaaaa aaaggacact
25681 gaccaaacac tgcagcaaaa tcctctgcaa ctgttttcaa aagaggacaa ataaagtcta
25741 ataagattcg attagactgt tgctagcttc ctttatgaaa gtttcattaa atacaggatc
25801 ctgttaaaaag ccagcatctc ccagggtcat cttggatact tgctttcccc caactcctgg
25861 ggggaaagag agcacacaac ctcgatgatg ccatttgaaa taaaaaagtc ctttttaatc
25921 cagaaaaaat ggggaaaagt ccttaaattg agatgtagca tgcctaattc aacccaaaga
25981 tgtgttcctt ttgtatcagc accattactt aggggcctaa gcagggtccc tggaggactt
26041 ggagctagat ctgttttagcg gggctctgtc atcactggac ctctcttcac atctagtgat
26101 ctggtgtctg tcctgggatt tctgatatgt atgtccctac agcttgttgt gcatgtgggc
26161 atggactctt ctgccaaggc catctttctg gaacagtgtg gtaagaaccg aggtatcggg
26221 gattcagatg taagaggctt ccagccggag gatggagtgt gcctccccgg tggccccgaa
26281 gtgaggctgt ctgttgtcaa catgaaggag gtctgccggc gtgtggctgt tgagaatgtc
26341 gaagtggcct tttcccgaga tgcgggcagg tacttcagga ctccgtgtgc caagtgccaa

```

FIGURE 6K

```

26401 acagatggga gagaggggatt atccttcaga gtcccttctc tctcctcaag aggctatcct
26461 atgttggtcca tgtggctgct ttgggtcacag gcatcctatt tgtcacaggc actgcagatt
26521 aatttaacct cttctccaaa cgctgacagc ccctccccct aagcaccttt cctctcttct
26581 agggataaag aaatacccgga ggggagttgg cagtaaggga gtcattgtgg tgaagggtgc
26641 ttaccactag ttgtttgaaa ggccgggtca attctgtcat gaccgcttgc tgggtcattag
26701 actctgagcc caagaaccaa tgtctgtctg gagtgttctt aggccatgtc ctttctctat
26761 cagaagagcc aaactcaagt ggtactaggc atgtgggcat ccataaactc atgcttcatg
26821 aaacctgtac ttactgtgtc tggcatcgac aagatctggg agtaatgggg agtttcatgt
26881 ggttgacagg acatctgcga ttacacctac tacctgtctc tgcaccttgg gactgggcat
26941 gcggctctca tccatgtccc tctctgtctg cactggctct cggccagcct tctgggcaaa
27001 gccttgcgag tcatcatcca agaaatgctg gaagaaatcg ggaaagtcca gactcaaagt
27061 acagcagctt aagggaagca gcagggggat gccttcctta gatgaaatgg agtgtttcag
27121 gcttgacagg agaagccagc tgtgctatga gaggtctctaa aaaagggaaa cagttacaag
27181 gctgggggtg ggggtggggg tgggggtgtg gactcacaga atcacaatct tacttttagtg
27241 tctaaagcaa gaagaaaatc cccaaaggcg gatgcttcat aaaggattaa ctaggggaag
27301 ttatgacctt tgtaactcca aagagccacc aaaacctagt gtcaagacca aatgaactga
27361 ataactctca agtgttcttt gaaaaagatt ttatttattt gtttgtttgt ttgtttgttt
27421 atttattata caatgttctc cctgcatgta tgcttgcag ccagcccagg gcaccagatc
27481 tgattataaa tggttatgaa ccaccatgtg gttgctggga atcgaactca ggacctctta
27541 agctctcagt catcttccct gctttgtttt gttttatttt gagacagggt ttctctgtgt
27601 agccccgcct ggctgtcctg gaactcacag aaatctgccg gattctgcaa gaaaatgact
27661 ttacaagatt tcctttgcaa ataaaccaag gacattttac atatgacaga gccaaagccac
27721 actaaggcag atcaaagccc aagggtggaag ccgggcgtgg tggcacacac ctttaatccc
27781 agcactcagg aggcagaggc aggcagattt ctgagttcca ggacagcctg gtctacaaag
27841 tgagtgccag gacagccagg gctacacaga gaaaccctgt ctcgaaaaaa acaaaaaaac
27901 aaacaaaaaa agcccaaggt ggactgggat ggcacaggcc accagcacag aacctagctg
27961 cttggctggt gccttggtg gagacccctc tctgtgagca aagagctcct gctccaaacc
28021 ttaggtccct ttgttccagg agtgggctct agtgacactt cagggtcactt ggcacctggt
28081 cagacacatt aaaagaaaac gccgggcata cgcctttaa cccagcactt gggaggcaga
28141 ggcagggtgga tttctgagct caaggccagg gctacacaga gaaactctgt ttcaaaaaac
28201 agaggccccag accccaaccc ccatgagcag ctcttccacc ccctctgctc ctctccagtt
28261 tctcaagacc ctaagcgccc atttgcattg tattttttgt aaatagcttg gcatcccccg
28321 acaatacaca ctgcatcctg ttcatgcaca gctgatagtg ggtggtttgt atgcttgcca
28381 gccagtgtag aacactgttt ttttctggtt catttaatgg ttgggaggtc tgaagcatgg
28441 ctctgtgttc atctataaac ccgactaata aaaagtcctg gttctgacta ccagagaat
28501 gtgtcaccaa caacacacca gccaaaaaaa ggaaagaaaa aaaagaaaaa ggtgtagtat
28561 gggccctcag cttgtggctt gaatatcttt ttttgttttg cttttttttt ttgggggggg
28621 ggtgaggtgg gtgggcagca gtatattatg aatctagcta gtaagcaggt gtttaaaaaa
28681 acgaataata aattaattct agaacgctcg taataggtga cttagctggg caggggtggc

```

FIGURE 6L

28741	acatgccttt	aatgacaaaag	ctccgtagga	aggcaggtgg	ctctctaagc	tctaggacag
28801	cctgggtctac	agagcaagtt	ccagggtcagc	caggggtaca	cagagaaacg	atatttcaga
28861	aagattaaaa	aaaaaaaaagtg	tctcagactc	caaggagagc	acctaactta	aaaaaaaaaa
28921	gacttaatttt	tatgtgtatt	agtgtaaagg	tatctcaccc	ttagatctgg	atcccttgga
28981	actggagtta	caattgtaag	ctgccatgta	gggtgctgga	attgaaccct	ggctcttttg
29041	gagagcacac	gtgctcttaa	cctctgagca	atctctcgat	tcctaatagt	cttttaaagg
29101	tctagtacct	ggctggagag	atgggtcagt	gatttaagag	tgccgactgc	tcttccgaag
29161	atccccgagtt	caccgagttc	aaatcccagc	agccacatgg	tggctcacia	ccatccgtaa
29221	gaaatctgat	gccctcttct	ggggtgtcct	aagacagcta	cagtgtactt	acataataa
29281	aataaatctt	aaaaaaaaaa	aaaaaaaaaa	agtctagtac	cttcatcctt	aaaagcagct
29341	ggctccggcc	aggcaggttt	ttggtaaact	ggaggcatag	taccaatcca	ggatagcaca
29401	gaaataagac	cttcagcgtc	atctagttaa	gctccctggg	catctggtaa	acaaaacccc
29461	cggggcagga	cgagattgga	aggtgtgctc	ttccaacgac	cttttgacta	taaatccaaa
29521	taccatttgg	gttaggttac	tgggaggctc	actgggtctt	gagttgcctc	tgatttgctt
29581	ctgccaccta	tgtctcatcg	atcagttctt	caccgggtgt	cctgattttg	tcaatgagtt
29641	ccccatttct	cagtgttcag	tgaggcggct	acctactctc	ccaggagtct	agaatgtatg
29701	gcttggttga	ttttccaacc	caaaccattc	atcaccttcc	catggcaaag	atggagagcc
29761	agcatctcag	agttacctgt	gggcaacctc	acgactcagc	accttgacgc	caggaacagc
29821	ccgattttcc	ttggttctct	ctccagcacc	ctcaggcacc	ccaactgtga	agcactacca
29881	aggacaggaa	aatgcacgca	gcacgcaagt	ttctggcaac	cccgccccac	ccccagactc
29941	acacatacca	aagccaccct	ggcctttttg	caacccaagg	tccagggggc	aagcctgtga
30001	agcagccctg	agacttgtgc	ttcatgcctc	ctgattttcc	tctagctgag	taagtgaggg
30061	gaaagtagct	tcttcaaact	caacagcaat	ttgcatttgg	agaaacccgg	ctgtcagttc
30121	tcgtgctgag	cattcccgag	tgacacacac	acacacacac	acacacacac	acacacacac
30181	acacacacac	acacgaggct	cagcttcccc	gctgtcagtt	ctcgtgctga	gcattcctga
30241	gtgacacaca	cacacacaca	cacacacaca	cacgaggctt	agcttcccga	ggaagtgggg
30301	gatggttcca	gagtgaagag	gaaaccaact	gggagacaaa	ggtgcataca	gaattctttt
30361	atttaactta	atccatgtgg	tactttaact	actagaaaaa	agcagagtaa	tagactcaag
30421	tggccttagc	tttagccatt	caaaatagac	aaagtttctt	ttttcataat	gtaaagaatc
30481	ccgagtatgt	cgcagtaaca	ggaataaatt	cttacaacag	aatatacaaa	aacattgaat
30541	tttttttcat	ctactgattt	tctttttatat	ataaacagag	ggtttttttt	tttaggaata
30601	attttatacac	agaaagttat	tttatgtaac	aaattggcca	tattattatc	tttttttagac
30661	tttttttttc	tttttttaag	aaaaaattta	acaagaaaac	tcagaaatgc	attattggcg
30721	atgtgtccgc	tccatcgagc	cttttgactt	ttgttttggt	tttttaaadc	ccagaggtag
30781	atgaactctg	gcaaaactct	tacttcaacc	tcactggcat	aggaagcaga	caggggttgt
30841	caccaggcag	gcacctactc	cacctgtaca	tgtgtctgca	cactgcccac	caccacaag
30901	aaactgaaag	accaaaccac	accacaaat	ggttcccaga	cctttttcct	gcagtgttag
30961	aaagttccat	gtgttttcaa	caacgggtatc	ttgtggaacc	agagagacat	ggccaataat
31021	gcacgggggag	ccaaaggaca	tggatcttaa	tttgaaaaaa	gggggagagg	ggacacacat

FIGURE 6M

```

31081 tgtgggttttt gttaccagtt tgttctgtat tagaaaacaa tggaccttcg gcgttcgcca
31141 ttagatacag gtaggcacag cattcgttag gatctgaggc acatgtgccc acgggctgca
31201 catcagagtc atgtgatcac tgtgaagcca ttccagtgtc ctgaaaccct cccatctcca
31261 tagtgttgca gagctaggac cagccatacc agccagatgt caccatggag tgccatctct
31321 ttgctgggtg gccacacact gctatttcca tggccagcag ttctttccat ctgtttgggc
31381 tgctacactc cacagggaac agtgagtccc agataattcc ttccccagc aaagggttcc
31441 aagatcaaga tactgaagaa tacagaagta ctttttaaac cactggcatt ccttttgttt
31501 tgtttttatt tttatctgtt ttattttttt ttgttttatt tattttattt ttattttttt
31561 acaaaactaga gcagaaagca tgtgggaaag aggggtgaacc acaattgggtc ctggggagaa
31621 tttctttttta attaattttt ttaagttttt attttttatt tttggcatat tgtaaagcta
31681 gctagtaaac aagtgtcaaa aaagaaaaag gaaacaaaga gggggaaaaa agaccacaaa
31741 cacatatttt tgcacacaca gagagaaaaa aaaagtgttt ttaaattatt ttcggcaatt
31801 ataaactaca aacattttat aaaattattc tatgttctta caaaaatgca atgaaacatt
31861 gaattagttc ttgtaaacca gagcttcgtc aacgactacc cgtaatctac tggacttaga
31921 agccctattg aaaggataat gagtaattta aagaatgggt tactggaaag atgcagacac
31981 aaatgtggac acacaaatca gtgattatga agttctcaca gaaacaaaaa tcaaatcaat
32041 ccctaacgtc atgccccaga ccgacaactc atctgatgag tgtgatggag tctgagtcct
32101 tccgcacgtg acttagctct aaggagaagt ttccagagca ggatgccaag tgtcttatct
32161 gaaaccaa atgcccacagtt gactccccag cctccacatg ctctgacacc ttcagacacc
32221 atcaagtcca aatatgggtcc atgcttcttc caggcccttt aaccctctgt cagcaattcc
32281 cgtcatgtca cgatgccggt taccaagggt gcctactgca ccgtcactct gtcatcccat
32341 caaggaatgt tcgtttctct aaatcgccaa ctgggtcatcc aagctggaag cccaaagcaa
32401 agacccttg cctgtccaag gtctgtatct tcagcatctc tggcaagaga ggttcaattt
32461 tacacagaca tcctgtcttg aagttctcat ttgtaccacc acctagtcca aagtggactg
32521 ttaaaagtgt gaccatcatc actgggtctt aagggggtga tctctctggt ccaggctctc
32581 caatgcagct gcttagccca ggaaatgaaa agacatcaga caaacataaa agtaacatta
32641 aaaacaaaaa ccaaagggaa aaaaaaaatc ccaaaccgta aattcattac tgctaaaatg
32701 ggccaaagca ttttgatgga gtggctctgt ctctctctgg atgccagtgt ttaggaaagg
32761 agatgctttc agcactctgt ggccactctc agaggaccca acgatgacaa cagagggcct
32821 tgggtaagca tcctagactc ctcaccacaa tgagctcagt gtgaccttgc caccactgct
32881 tgcttacctc aggcacaggc actgccaaaa gaggtggggt gctaaggccg aggctccggg
32941 agctcaggct ggcttaggac ttggcatcat acagagctca tccatctgtc agcccaccct
33001 aaaaactcct gtataccact ccgccatctg ctctctctac cgtgatcgct tttctagtgt
33061 atgaagctgc ttttcctacc gttgaacagt cccgagtcac aagaaacagg caggtaggaa
33121 aaagagcaac cttgaacagt cttttatata tcaaggaggg agcctcatcc catctctgaa
33181 tccaatgtta ggacattcct gaaaggagat ggcgaagcgt gggccccacc cagctcaggt
33241 tcagctctat ctccacgcct caggaagggc tgtgtggggg cacacctgga tgttcacgtc
33301 acctgcatgc tgtgcctcag tggttcatgt gacttcaagc agtgtgagct cctatcagaa
33361 ggggggggtg ggtgggggtg ggctcagagt aaaaaggcca cgactcagct tggtaggagt

```

FIGURE 6N

```

33421 acttgaagct tgtaaagaga aaaatcagga agagggcgggg aacatcagca tgagatcagg
33481 ctagaactgt ggatatgatg ccttgcaata gtcggggcgc gtcagtccag cagaacgact
33541 gcaccctcgt acaagccaac cttttctttt tattgaagtgt tttctggagc attagtttat
33601 gacggccact acgctgttgg tgccgtctct ctacttaaag gaaaaaaaaa aataacaccc
33661 acgcaaaaac aaaacaccaa caactcggac agtttcaaaa ataataataa taaggaaaaa
33721 aaaaaaccct taaaatcaat tgaatgaact gtagaaatcc agttgtggaa aaccggcagg
33781 tatgtgcgag aggataggcc actatcccag agtgtcacct acagtgtaga agaaaaccct
33841 gatcaaacag tatctcccag tgaccctgtg agcatctagg aaccagaga agggcagcat
33901 tccagcagga ggcgaagggc tcttgagctt aaccgaactg ttaggcagtt tctccatact
33961 gggggaaaag attagccacc gcggtcccca gctgaagtcc ccagggcctg taagagcagc
34021 tgctggagtt gaggattgca ctgtccacct gtgagcagca gacggatggg tggacagagg
34081 cagagcacgg ggaaggctag gcgccaacca ctggccttcc agcctcaaga tttggtcagt
34141 ccttggttag ccctgggggt tgcggggggg gggggggaag ggagggaaga agaggggaag
34201 acagcagcct gcagggggca caggcttcgt cttgccccct tttttatact ggcccttctgt
34261 cagaagcaga agggggagct ccctgaccgc tgtacctcca agaggaacca atgccaggag
34321 agcaatggtg gcatgcccct gcctcggtgc aggtctcaga ggagcagctg agggggctga
34381 cagggcaccc tgacatgtgc acacattggg actctcaaga caacctacgt gtgggtgcct
34441 cctgccctca aaacctggga gtacctgtct tcttagggat agaatttgtc agtcattcaa
34501 tctgtagaga aagttctgtt ccaaagtcag ccagctgagg atggggccggg gagccccctt
34561 ccactggcgt gctgtgctca tggtgactgc tggggtgaaa agtaggggac caggtgagga
34621 gaaagaccag agttgcccta ggaaaagtgg gcttttggag acagagcagg aagaggctgc
34681 tcatttgagt tagcgttgct ttaacccag aatccagcct ggcccctctc tgcttcacct
34741 gggatatgtg cctgcggagt ggctgagggt accaggatca ttggcctact gtcagggtact
34801 gagaagtgtg agatgtatta tatatatata tatatatgtg atatataat atgcacacac
34861 acacatgaaa aacaagagtg aggtagataa atgtttgaaa aacaagcccc ccaaaaaaaa
34921 ccccccaaaa ctgtcccatc taatacacac atacacagag atacatgtac ctttctctca
34981 gcattttaa atcataacagg ggcttttctc cagtgtattaa aacagggtatc aaaaaataaa
35041 ttaaaactcc tacatgaaat accttcttaa taagcttccc ccctcctttt ccctttaagg
35101 gcagaggcta ggaagagcca caagcctgaa cctacagaca agccagacaa ctccagcttt
35161 ccttcctgca tctaactctc agtcacaact gcaaccatca tcatccaaca gtttctctac
35221 tcctaattta aatatttcca cccagaagca tctctcgcg tgctactgct ctggtaagaa
35281 gtgctaaatc gaaacaagac aggaccctc ccccaacccc actccagggg gaggggcctc
35341 caagcccaga gctccgggat tctgggttaag gaggaacagc aaggggctct agggccactg
35401 tagggtcagc tctactccac tttgggattt ccggcccggg agtgggcttt atagcacacc
35461 cactaaagtt gctgctcctg gccatgggga gttgggtgtc tacatcttgc tccaggggag
35521 gccacccctt cagacaagct gggttctaa acaggtgggc ctgcttgtga aggaggtggc
35581 agatgggcca ctggaccagc tctgctgcat cctggggact cagcagctat tgtgtgtgtg
35641 tgtgtgtgtg tgaaagatca aatattcatt taaataataa tccaatgact attgtctgca
35701 gttaaaactg ctattgtatt cccaaattgg ggtgtgtgtg tgtgtgtgtg tgtgtgtgtg

```

FIGURE 60

```

35761 tgtgtgtgtg tgtgaaccaa agcaaggaga gaaagcaaag tgtgactttc aacaacaggg
35821 actagaaaca ctaaaccagg atgtgtggga tttttaacct ttttgtttct gacctgagtt
35881 tgtggcatgc cttgccctgg agcagatgct gtgtgcgggg aagcaaggaa aggagagagt
35941 agggcccagg agtctgtggg ctctggactc ccaccctccc cactccctca cctgtgactg
36001 tgctcacaga gcctatgggt tagagggtaa tgaatggggc tgcagggagc aggggaaggg
36061 agatgtattt ataaaaaagg catcaaacag ttcacggcaa gttatgtcct agaagcatca
36121 gttgccggag aagaggaaga aaaaccacac tctagtataa agcagaggaa gtttcttgga
36181 gtgagcagaa aggaagaagg ggtagacctg aaagtttcat agattaaatc cacaaagata
36241 aagaacaaaa aaaaaatagc agcttttctt ttcctgtaca gatgtataga tgaatatctg
36301 aactgtaaaa aagttataaa actgacatta aagacgatgt gtatgcaaat gtttcacggg
36361 ctaacataga actgagagac ccatgaagaa gtcctagtaa cagaccatgt gaaagctcac
36421 actgcttgga tccactgcct gggcgggcgg ctccaggctg ctgtggctct gaatcccttc
36481 ctcgaacatc cataaccaac agccaggccg agtccccgga accctttcga gtgtgtggcc
36541 ctcaggggag gggcaggagg gaggtcgggg agggggacga ggctgggtgt aggaccacct
36601 tgaccacaa cctgaccttc aagcttgccc atggccactt cctccagaat tcttgggggtg
36661 ctgtgggtgg gggaggggtg gagaaccagt tctgctttcc ccttcttcaa ggagggcgag
36721 ttccatcttg tccagttctc ccaaacggta accatgcaac gagaccagg agatgtgggc
36781 tgggagagcc gggcacagtg gggggcctca gcacgtgtct ctcaaagtgt atcatcaacc
36841 agacaccatg gttcatccca cgcctctgga caaagggaaa tcagcgcagg gagtatatgc
36901 gtgtgagaaa aaccaaaccg aaaacaggat tttggcaaaa atggcagcgt gaaaaatgat
36961 agccacggat gaacaatggc ctttttaaat tttggggtga ccctaaaaaa ggttaaaaaa
37021 aattccatct cagtgtgtga attttttttc tttttctttc cttttctttt ttttaaaaga
37081 cctacgggtg caggcagggt tatgccccgt gatgaggagc cccaggggca gccattaagt
37141 caatctgatt tttttttttt ttttaaaaaa gaaggcttcc cagatgggag ttcacaaaca
37201 tttttccact gtaaagcaga aaagagagaa aggagagcgt ggaagtggaa ggggagaggg
37261 cagagaggga aggcagagga gaaaaaaagg cagagaacga agagactcaa ttctcgagtg
37321 tcctgttgct attaatgtgt gtcattaagg tttgcagagg cccatgtcag ttaagggttc
37381 gggtaaagga aataaaaagc tgcttgcata ttgaaaaaag gaaggctcca aatgtgttta
37441 ctgcagagaa gccgtctccc gtgggcagca atggcagggtc tgaagatcca ctgaggtaca
37501 ggaggcttgt gaatagattg ttacaacctg ctctcccctc cccgcccccc cgcccaccga
37561 gtgggcgcac acacgttact gttggcgcgt gcttcgggtg gtccgaggat cagcaggtcg
37621 aggactgggg cagaggcaag gccctctcgt tggcgcgtcc cccgttcatg tgagcgtaag
37681 gctgtctctc atcaaaactg gcgcggagaa cgagcacgcc agggcccggg ccattctcag
37741 ccttggtgtc tgagtgtctt tcaggcagag gcagggaggc tgaggaggcc gaagggtcca
37801 gtgggacgct ctccatgttc tcaggctcca tctccagctc ctctggctcg ggaggcttgt
37861 tctcctcgct gtagtagaag gagacctcct ggaagctggg ctccatctca tccttgatgc
37921 tgccgatgat ctccaggaag gagggccgca tcttgggggt atactgccag cacatgcgca
37981 taagttcaaa cctaaggag tgatggggaa gaaaggaatg agctgccaga gagaccaga
38041 agaactgtac cacctctgca ctctctgctt cccatctgga tgcctctggc atcctgccat
38101 gtatcttgcc cagaaccag gccagccac agtgccaagc ccagactcac ttcaagtctt

```

FIGURE 6P

```

38161 ggttcaccca ttccaccatg gacgggttgta ttaatgatag cactgctaag agataaaacc
38221 cacttcctgt ctaagcacct cttctggcca cacattaacc agaagaggaa acctctctct
38281 ctactaatg agaatcacag ctttcttgac aggcaccatt ctctgtatct cacaccaggg
38341 ctatttctaa gtttcttctt ggcaccaggg cgcccctggc agtgggcctg agggaggagg
38401 cggcaggggt gctagacaga cggagcacat atcccaagct tgctatctca cgccagcacc
38461 tgctcactga ggatgtccca tgaaggaaga tccctgtctt gaagatgtag gatgccagg
38521 agcagagttc taatagaaac ttcaagtctg atgccaacga accaaggga gtcctaagca
38581 tcattttctt ctacaaacaa ggccaaggta aaaacagtat aaagcccatg acgtacctcc
38641 atcactccca caaggtcaca aacctttgca aagcttcttc gtcctcgaga gttacatggg
38701 ccagctggca cacaggacag aagagaaagg ctgctcatgc agccaccgtc ctgaccagca
38761 aaggcctggg agtagacagt ggaggagacc ctaagcaagt gaagggtgtg attgctgaca
38821 cgtgcaaggc catgtcaagg accccaatgc ccagtcacca tgggagtggc aaagtctacc
38881 ccagtgatgc ttgcttagag agatggtaaa gccttcccct gaggtccgag ttgcaagtgc
38941 tgacagtgtg tgcagaatat gtccactgtc acgtccttcc cctggaagtt tatagcctca
39001 agacggcttc cctgcagaga tggctaaacc tgccctcatg ttcagctgta tataataatc
39061 ctgcttctct gtttatctgc atgcagtaat ctgcctctct gttcaaatat atacgctaaa
39121 catactgagc ttccagagcc cagtccacgc agtccccgtt tctctatacc caagtgcaca
39181 ctctttgttc attcccttga tgccctcgtc aagtcatagt tctgcaaccc aggccatgca
39241 gtgaaccaca cctgggctct gacggatgga cagacacaca ggcccgacag aaaacaagga
39301 cagggtggtc atgattctga gggaaagggg tacctagcag ctctcaatca caggcgtgtg
39361 agaccaaaagc actctccacc tatgtctctc caggaaactg tgttttataa aaactcctgg
39421 ctcaacagac gctttacact aaaaccacaa aatggaagtt cgaacatata ggaatctcaa
39481 agcaccctga acaggettct aacattctac caggctgatc actgggccac caggacactt
39541 cttttacaaag caaataatcc cacaggggta aaggcgtgtg aaagcaacct attggtaggc
39601 atgaagttgc ctgtgcagag aaagccactc ttgccatctt ggccagcttc cttggactct
39661 gtaggatcaa gtcaggccag gtggaaggta gttatcttaa aactgaaaaa aggtgcattg
39721 gagatccacc tccaagaatt aagcactctg gagggccagg gtgaagccaa ccaattacag
39781 cggagccagg tgcagcttgg agcctgttgt tagcggaatt gtaccagagc agagctgggt
39841 acacagcacc tgtggctgtt tctaagctcc tttgtaggct gagtagttga gacagcggct
39901 gtttagctag gaaccttaca atatttactg cctactcctc tggaggtaaa gaaaaatccc
39961 aattaagtgg ccaatgtctc gacggaggaa aacaaactgg accaaagacc aggctaacta
40021 ggtattctca ctggctctaa gtgactggtc ctagtggcac atgacagggt gcaggtaggt
40081 actaaaagct ctaggcccg ggtcacgctc agtccccgag agccagagat gtctctttac
40141 tccaatgatt acaacacatc ctcattgtat gcataaggga aaagcaccia ccacagcatt
40201 tgatcatttg tctgaagtca cacagggagt gagctggaac ggcgtgaggc tgtcagacaa
40261 tgcagcttta ctgtaagtaa ccatggtctt gctagcagac ggcgtctctc cgactgtcta
40321 cagacagtca gatctcctga gccggcttgc tctggtttagc tgctgcagaa gcttgttctc
40381 cccgggtcccc atcatttccc gaaggattaa tcggaatggg aagcagacac aaggagctta
40441 gctccgtggc caggctgcaa tttcctctct ggctgacagg cctagccctg aatagaaaag

```

FIGURE 6Q

40501	tgcaaccggg	ggcaagaaca	tgagatgtgt	ctggccccaa	gccccgtggc	caggggtggg
40561	gggtggggct	gaggaggtgc	cacgggcagg	gtagggatga	ggtgacatca	gtaaaaacaa
40621	gccatgtgat	gcctctttta	aatcatccca	gagtcagccc	ttccagggct	gcccataaaa
40681	ggaagtcttt	tttgctctgt	gcgatttaag	accttgtttt	ttttttgttt	tgtttttttt
40741	aaatactctt	tccacaagaa	aactctccag	tagactctgg	gattaataag	ctgataaaat
40801	gctccctcta	aaaagcacac	tttaaaacca	ctggacagct	ctgatgagct	ggagccgcga
40861	tttacagaat	atgtccctct	gtgaagggtgc	acacctatcc	ctctagaagt	gagtgtctatc
40921	ctgggggtgta	cgcccaccgc	tatgcccatt	cctcacttgg	cttctgagcc	cccaagcaca
40981	ccccgtgtct	tcagctggac	aggctgccat	ctatgtgagg	cactggcaaa	ctgaaatatg
41041	cccaggacct	catgtataca	gtaccctctg	tgccgcctgt	tagtactgta	ccaggtagta
41101	gtgactctta	gcagggatca	gactttcaga	agggcctacg	ggactgagtg	ggctctcctc
41161	tagcatctca	agcaactaag	gttgtttttag	ggccaggacc	tagacgggga	tgctatatag
41221	cccagttgct	ggcacacagt	cgatgccagg	gaccgtccag	cagacactgt	cacctgcctg
41281	tgatgactct	attcaattta	tctcgacaaa	accagactgg	gattcccagc	ctcctggggg
41341	tggagaggaa	aagtacagaa	gtagtcagat	tggactgagt	atgtctcagc	tgactctgag
41401	ctggtgacgc	tcggctagta	aaacgttcaa	gttccttcct	gaatcccgcga	tcccgaagac
41461	ttggcatgtg	agctctggag	atgttaatgg	atcaaatgga	tcaattctgt	ggctgagctt
41521	acatcgctcg	cccattctgc	agcacgaggg	ctggaacctg	tttcaggatc	tccaggttcc
41581	gtgaactctg	ggactggccc	ctgacctcag	cagggttcac	tgacaaatct	gtgtccaaag
41641	ccctgaaacc	caggggtaaa	gatgggaatg	ataggctccc	ctgaccacagc	ctcacagaat
41701	ttgctagatc	aattcaaact	gagctattgc	actgacagtc	agacctggat	accctgggtg
41761	ttggtggcag	cctttcctct	aaagctagaa	cactttgtaa	tacacaaggc	tggatactta
41821	gtactctctg	aagcagactg	gttcatgtgt	agggacgacg	agaccaaagc	atggccagag
41881	aaagggctgt	tcctgcctca	gaaccacacc	atggaagtcc	ttcctctacg	tgtgagacct
41941	aacaggcttc	agactactcc	caagagtgtt	tgcttactgt	gccaaaaaaa	aaaaaaaaaa
42001	atcctttcac	agaacacatc	ttcctctcat	cagcgtctca	gccaaatcag	ggcaccacac
42061	tccctactgg	agcagcccgg	ctcccttccc	ttcactctgt	tcttttctta	gaaaggagac
42121	cgatctgcca	aggggggttct	gaatggcaaa	gcaaaaaggc	ctcctgaatc	aatcatttcg
42181	catccaagag	cggcctccgt	gtgtaagctt	cctcctctct	atgctgggaa	caggaagtcc
42241	actgcctttc	ccatagcagg	tggctccttc	ccaagcatat	taaattcata	ccccaaaaaa
42301	aaaaaaaaat	ccaggcagct	ggggatggat	caacttcagg	agttccatga	gtttctcaga
42361	caaatgtttg	ctccagcata	aaagaaaaga	aaaaaaccaa	caatacctct	cctgtgacca
42421	ggcccaaacc	acaggaacaa	aactcacacc	tgctcttttg	aacggtttct	cagctcgtga
42481	gacagtgtgt	atcctgggtat	cctaaccaag	gctgggtggg	cacaccctta	cacagactca
42541	gaggcagcca	tgctcctact	ccatcctttc	acctttgccc	acatactgac	tattctcgca
42601	atggacgagt	aggactgcc	tgcaccactg	aggctcaaagt	aaagctataa	cagcactcag
42661	aaccagagc	ttctctaggc	aggccctctg	catcctgtac	gccttcggag	gtcagtttag
42721	aaaggccaca	gtggcagtgt	tctccgtgaa	gatgctgcag	ggcacagcag	gccacggacc
42781	agtcagtggc	tcaatatggc	ctgctgtcta	ttcagttttg	taaggccctc	ccaagcaaga

FIGURE 6R

```

42841 ggggttttttt tttttacact tgccaacagc tggggcaaaa acaaacaaat taacaagtcc
42901 cccacgcccc acccccaaat aggagtattt tataagaaga aaacgagagg aattcaaatt
42961 ccaatataaa gtttttagttg ggcaccagca gtaacactgg ctgcaatcca agcactaggg
43021 gagtttgagg caggaagatt atcctaaata cctgggctac actgactcca tccttgttga
43081 ttcctgaatc atagtggcag agcagagggg ctggaaggaa gagtgagcgt gcgggtccca
43141 gcaccaccaa tcctctccag tgtattagag aaatcctctc agtctatgga gtgggtccaca
43201 gagaagccac ggccctctccc actacacaga accatcactg ttctaccgc cctgtagtaa
43261 atccgatctc cttacaatca cccacgtac cggagtatct tcactctggg gaagccctgc
43321 ctctgaccag cagctatctt ctggagaccc tgagctagct agtgtcacct catcgagctc
43381 ctcttagggt tcattagaaa gcctgtgaga tgacattttc aactgttgga gcctcacggg
43441 ggacgatgct agcccacacc ttgacatctc aagattcaga gtacagtcac tagcacctct
43501 ctgtgctctg cccaccacct gcaactgcag cccaacctct ccactctgtac attgcctcac
43561 catccaaggg gccacgagag tgagcgctgc gctggggaag agaaggccag gggtaggcag
43621 agtcttttgt gtagaagtga agaaatcttg acaaccccc tgggattctt tcactagtgg
43681 agctgaacct gttttgaagt gtttctggga aactgtatgg gtcttgacat atcagtggga
43741 acctgctttg atgcttaacc ccgagatgca gagcaacagc cgagccccac cttaacgtgt
43801 gcacatcaaa tgcaagtcca ctgctctcaa cctgtactcg atgagccaat cggaatacct
43861 tcatgtcttc cttgaaacct cactccaaga agtgccattc tcggggctgg agagatggct
43921 cagcgggtaa gagcactgac tgctcttctg aaggctctga gttcaaatcc cggcaaccac
43981 atggtggctc acaaccatcc ttaatgagat ctgacgcctt cttctgggtg tgtctgaaga
44041 cagctacagt gtacttagat ttaataatga ataaatcttt aggccagagt gagtggggcc
44101 gaccgggagt ggcaaccttt gttcccagca accacattaa ggctcacaac catcagtaca
44161 gctacagtgt actcatatac ataaaaataa taaatctttt aaaaaaaaaa aaaagaagtg
44221 tcattctcca gaccactga gccaccaaca tcagatgaca aagaaagacc tctactcaag
44281 agagtacaaa taaaaggccc acatgtggaa agattcttcc ccaattttgg caacaccagg
44341 taacttctga ggggtggagc ctaggaggct gccagggtcat tagaaagtta tcttcaagat
44401 ttaggactac agcaggaaga ttgtgaacct ctttaatgca ggggttctca accttcttaa
44461 tgctgtgtcc ccttgacaca gttcctcatg tcgttgtgac cccaactat aacactactt
44521 tataattgta atctgctact gttatgaggc aaaatggaaa catctgtgct ttctaacggt
44581 ctgaggtaac tcctgtgaag gggcaagggg tcacgactca caggtagaga acggcttctc
44641 taatggctcc ctttcacttt caagccacaa agtgagactg tgcgctctga cacacctttt
44701 ctaccgtaac agttacctcg ccacaaatcc aatggacccc actgccgctc ccacactggg
44761 agccaatgtg aaatgcttct ccttgaagc tgtttatctc agggagtttc tcgagtcaca
44821 ctggctgagc acggagggtg acctgacacc acgtgtgtac tgccatcgag tgacaattct
44881 cacaaccaat cgatgcagga tgttattttt aacagaagtg gagcgaggca accatctcac
44941 caaccccccc taggggtgtg ctacaagcat gtccaaagag ggatgagctc aaccgtgctg
45001 taggtccatg cagctcgaag ggattaagaa gacagcagat ggtctgtgac cttgtgtggt
45061 ggctctctga gctttagtct acccgtgcaa gagagtgact cctgaccaca gagctctgtg
45121 tgagcatgct gtatagacct tccaggggct tggggagagc tttcaaactc ggctcagcag
45181 tagtaactaa cttgcatttt tgtcttaaaa attaaatttt gcatgaaaaa gatgagccag

```

FIGURE 6S

```

45241 gattgctcat gtatttcaga gatgggagat gggggggggg gggtagtggt ggctgagacg
45301 cacgccatgg tgcaaagtgc caattagcac tgggggggacc aaggggggcac aggatgagat
45361 taaggagcag cacaaagtca cagatccaac aagctcagca gcagcaggat agagcctttc
45421 taatcctctc ctgtacccac acacaacgga gtgggtggct ctggaaatac atacagcata
45481 tcagggcagt tgtccggctt gtccagaagg ccaccctcca tgacgaaacg aagaacttgc
45541 tcgttggaca agccctggta gggctgctca gccagcgtgg cgatctccca gaggacgacc
45601 ccgaaggacc tacaggtgga acagaaacagg aacagctcag aaagggatgg gaagggccat
45661 gtccctctct tgccagcatt tcttagactc tgggtcctga aaaaaagtgt cctcaatgtg
45721 acgactgcac tttgtggaca tcaaaccagc cagcttgcta cgtgtgggac atctgttccc
45781 ctttgtcact gctaaggctt cctatagggc tactgcaacc cagggtgag gtaattaatg
45841 ttaggggctt ctaacatctc tcacagtttt aagagcccga tctacagcgg acacattcag
45901 tgtctggtcc cagccattac ttggacataa gccaaattag ctctagtcca gcaaggaatg
45961 cagaggacca ggtcccagcc tggccactga cctgagacag ctaagcatct caactatctc
46021 ctgcagggat ttctttcatg ccagcttaga aatactgatg ctaatggttc tccacgcctc
46081 cgcaagaaga atctgacagc ggttcttaaa acaatgggta tcttgggctc tccaaagcaa
46141 ttctgacctg ctggtttagt ggtagggagc tgggcctgga atgtctcaaa gttctgtagg
46201 atcttgactt ggggtcaagga agatgaaaac tcgtcccttg cagaactcag gagccatggc
46261 tgcagaggtg gctgtgtcag gaagggaaact ggggtaggat aactggcca gggggtgtgt
46321 cgcaataaca aagagtcctt tgggtctagag gctggctgag gtatgaactc atcaggcgaa
46381 gcagcgagga ttctactgcg tgaggtatgg cctgtcagcc cagaagatgg aactaaagga
46441 gatccatgca tgcagacact tcagacagac aatggtcaca ctgtcgtcca gtgtgaacac
46501 accttctcag ggagaaccct tgctttcaca aaattcttcc tggcctgtct gctcttatgg
46561 tcaggctgta tggctagaat gaagaaggct gcccatggca agccaacaca aggcttcgga
46621 tggaacccta gcagggtga gccccacaga agagcctgag gcggccattt tccacttagc
46681 actctgagga tcctggccta agctggagca acagcctctg actgcatctt aacttttggg
46741 tcgcagcttc agtttccttc taggaacaaa agggttttgt cccaactgat gctaagcaat
46801 gtcagacagg aacagaacct cagcaatcag acccaagttc cttgggaacc ggcagtcact
46861 aagacagaca gtgcagttac ggttttcaaa gacctggccc tagagaagca ggtttcctgt
46921 gtgtttcagg cctgggttct gccttgacaga gcctttgtgg acactcggag gcattcttta
46981 gaggtgcag tgctcaccct catgtctgaa tccggcctga gacaagcagt gatgtatgtg
47041 gttttctctt tttatcaacc ggtcttgacc aggttccctt ccaagccgac tccccttgtc
47101 tttcatgctt tccctgggtc accacaggct ttcaggcatt cagtcacaat cctggccccc
47161 agctcttgac tgccatgtct agattgtctg ttacttgact ctacagactc agcatgtcag
47221 ctccagtgta actcttgctg gcacctgtt ctctcctgg actccctgca ggccaacttc
47281 ccattccatc ccaccccatc tcagcagcca gtctgctcat aggacggaca ggaagataga
47341 gagtataaat cagaaagaac gaagacgtgt aagggtggc cttcctgccc ttgtgagggg
47401 ggggacagtc cctgggacat ctccccagaa gctcaaataa cagctgtgat aaatgcagat
47461 ggtcaggggtg tggcttgacc tgaggacacc tcccctcacc atgttctctaa ggtctcctac
47521 caagtcaaac aaaatccttc caacttttct ttggattttt acctacttct gactgtgaat
47581 tcattctaaa atgactgcaa ttctcttagc aagcagaggt tcaggcagag ctgagcatcc

```

FIGURE 6T

```

47641 gtttatacgt tctagtgtcc ttgatgtccc cagctgtgtg ctcaaacacc ccagcacttg
47701 gcctttttctc ttcacgcatt ttcttattgg tttgtaatgg ctacgtaatc caagtggagg
47761 aaacctgcag gaagcaccct gtgcgcctct ggctgtggca tgcagttgtt acccagagtc
47821 ggggggagaat gagtctgtgc tcaactcttc cctatcctgt aaggtgatct ccaagcttcc
47881 agaaaaatga agcttagaac aaacagatgg aagtgtggcc ctaggtgtgc cctctcctgc
47941 gacctcatct acacatggaa cagagtcctt tgattcgaca gagaagatgt aacctcggag
48001 aggctaattg cagagcagac ctcacccctag agtcgggaaa caaccaggcc gcgctgggtc
48061 atattcaaag gctatttcca atttgcacct gtcttccaaa caagatccaa ggctcttgac
48121 cgggaaaggt tcacgaggct aaagaactga tgtcagtcac tactgagata gtttctctgt
48181 gtggtcatcc gccctttgaa taaaccaacc accgcttctt ctgtgacaca acagcaacgg
48241 gatctcccgga ggagacagcc aagacacttg ctgacattcg aggaggggga cgacgtgccca
48301 gggctcctgc ctgccaagaa ctccagttgt attttggaa cccgatgacct ccacacgggtg
48361 tttccaagga actgcagtaa acattactac agagaagtct ttgcaccctc tggtcagtgt
48421 gctactaccg caagacactt attattaagg aagatgcttt gggtcaggaa taatggacat
48481 cgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgaacaga
48541 tgagaccaac agaaaaccac aaccaccaag actcaagttt tgggtttaaa taaagcactg
48601 ccttcaatct gaaggtttcg tgagctgagg caggagcaca tacataccca gtaccaactc
48661 actgagagtg ggggaagagag acgggggaac aggcagaggc gaaggcattt cccagtcctt
48721 tggaaatata atcaatattt gctaaaaatg gaaggaaatg ttggttctac ctactccttg
48781 gcttcccaca gatacctttt ttgctttaat ggactccaca caggaatatc taaaagacaa
48841 agggctaaac ggcactgaga gctgaactca aggttggcag ttggtcacag tgaacaaaac
48901 aaggaggaga atgagccacg agtgagaagg tccaagctgg ccatggaggg aaactctcat
48961 accagacatc agaatgagta gtgaagacac catccttgag ggactcggga gacatccagc
49021 gcacaggcag caacccttc ccgcctttcc ggtagtagtc cgtctcgtag atgtctcgtg
49081 tcataccgaa atctggaggg aagatgcaca gttactcggc tggaccaggc cttggggcag
49141 agccctgtcc ttcccccat attcaagggt agacatgttc ttgctccact ctgagagggc
49201 tctagcatca cagccacttc acaggagaat acaagacatc tctggtcttc atcaggctcc
49261 tttaagaaat taactccctt ataacattta aagcgagagg cagtttgcaa aatcattgag
49321 taccatgatt tttcaagaaa atatacgccg cacagggtga ggatatagtt ttaaagtttg
49381 gtccaatata cgggagggat aagaccccat ttacttggta gtgtgtctct actgctgagg
49441 aaaaggcctt ttgccactcc acagaggaca atgtacgaag taagaactca ggaagataaa
49501 aggacagcaa acagctgaga tgttcttcac caggctcctg gagctactac ccaacaccct
49561 ttccaacac aatactctca ctcagttttg aaaatgtttt ccatthttctg agtttcatca
49621 tgggtgaatgg caggcttgct tttttataat ctcacattac tgtgtcttta tccatttttg
49681 attttccact caaccgcacc acctttccct cacataaact cttgcattct cttccctgg
49741 agggaagagc tgctcaacct ttaaaatgtc ccctcgcacc tctaagtggg gccacaaaga
49801 ggtgaggtag aaaaaaggca gagcaaacc atgtagggtt tgctctgcat ggatgttaac
49861 ccaacacaat tgacttgcac cgctgtctga gctactggct gcctctcttg aactgattta
49921 ggggtgtgtaa tccctgagat gggggcactg ggggacactg aggaatgcag aactcgcccc
49981 agggaggaaa aggaagtgtc taaatctcat ctctgaatta atccagagac atgcaaatga

```

FIGURE 6U

50041	gaggatctgc	tttgacttgc	ataaaagggg	aattctagaa	aacaatctct	ctccctaaat
50101	gcaaaagaaa	aatagaacaa	ccccctcttc	ccaaacgggc	acacacaatt	taattctaaa
50161	aagaaaaatc	ataattataa	tagaaaatat	cctcataaat	gcgccacatg	gttaagcaga
50221	aaatataatc	cttactgatt	tggatttaaa	atggcaaaaa	gcacacgcac	acacaaaagc
50281	atttttccaa	ctgtaatgca	aaatgggacc	aaagcagcct	ctcggagttc	ctggctgtgc
50341	tgagaagggg	gcacagcagg	gtaagatgag	gacaggggca	caggcttgct	gtcccagccc
50401	gcctcctcct	ccagctctgt	cccaatccac	tctcactcca	cagggtgggga	aagatggcac
50461	agggagggaa	ggcacctgcc	tcaggccact	caggagcaca	gtttcctctg	aggactaaaa
50521	tctagatccc	cacacataag	ggagggatgg	gaggcaggaa	ggaccacaaa	ggctgggttaa
50581	gaggatgcgc	ctcttatcta	gaaactctgg	ggcgggggat	cctcttaagg	gctgcccacc
50641	aagctagggt	cccagggtc	caaatatgag	tgtacaaacc	cagagacagg	ctgggggtat
50701	cttcagtaac	tccaatgact	gacatctggt	ctgtaacaca	gctgcatgcc	aacaccctta
50761	actcctgcaa	tcagcaaaga	agagagcccg	actttggata	cctctctaga	gatgacaccc
50821	atcgcttact	aagaggccgg	aatggctcat	gcaaaaacca	cttctagggg	tgaggcaagc
50881	agaacatctc	caggacacaa	gctcaagagg	cggccaaagg	ttagtggctg	atcgcttctg
50941	ctacatcgtc	tgtccctctg	cttgttctca	ggatggacac	ttgttatggt	tctgacctgc
51001	tggcctatcg	cagtaggaag	gtaaagtata	tgcaggatgg	ttttctgagc	aaccttggtta
51061	ctactttttt	tttttttttt	ttttgaagta	aaagacaaaa	aaacaaagcc	aatatacaag
51121	ctgtaagggt	ggggagaatt	tctagccaat	gaccagagat	gtaatgcaat	cagtgtttta
51181	ggatcacaa	gtggtggcag	caacaaggta	ggctgagcag	ctaagggtcat	ggcaggaagc
51241	tatgcacgac	agaacggcca	agtgtctgga	gctaccactg	aaggatgcac	ctcagtggct
51301	taaccagcag	catacatcag	gccctcgggt	caattcctgg	cagcaggaga	ggaggagaga
51361	acttagagcc	gaccagtcc	atgagtga	agcagtcagc	agtgatctcc	cgcgactga
51421	catgaccacc	atataccctt	cctgtttacac	tatgcagggt	ttcaccatag	gggcacctgg
51481	cctcttagga	accccatggg	cctattcagg	gacaatgctc	tttgtaagct	gagaaacttg
51541	aggggtggac	tggatggtga	cattctcctc	aagccaaaac	cacttcagga	agcaagctgc
51601	cccgattatt	tctgtaacgt	ttgacctggg	gagcagggcg	ccaatctgga	ctaccatggt
51661	aagggtgctc	ccgggttaca	gccaggaata	gacagtcaca	ccgactacat	acatctttgc
51721	actcaagggc	gaggcactgc	tcctctcgga	cataatgaaa	atctctccag	tggcagacta
51781	atgactgcaa	agtccctca	gcacctgtga	gttcagttaa	gcctgtgctc	caatctggaa
51841	agcaaaggac	acacctccaa	ttttgactgt	gaaatcttcg	gctaccatgc	agttcctagc
51901	agcaagggtc	ctgtggacga	acttggtggc	attgaggtag	gccatgccat	ctgcaatctc
51961	tccagccatc	tggatcatct	tgcttaagct	cggaggaatg	aggactagat	tattctgctg
52021	cagattcaaa	acaagacaaa	gccatgagca	acggagacct	ttccccctta	acctcctgta
52081	ggtctacact	aggagtgcga	aatgcatatt	tacttagtct	gagtaccaca	ggtcacctgc
52141	agggagtgcg	gacttgctaa	gaaggactag	cacttctagg	gaccagcaat	ctcttttccc
52201	acccctccc	atgcatgcat	gtgcatggat	gtgggggcct	gaagcttatg	ttgggagcta
52261	ccttctaccc	actggttgag	gcagggtgtc	cctatcaaac	ccaacctggg	caacatagat
52321	tgctctgggg	atcccaactc	atccttccaa	ggctggaatc	acagggtgtg	tgccacacca
52381	gcccagcctt	tacctggctt	ctgacgacct	gaactctggt	ccttatgcct	gtgaccaccc

FIGURE 6V

52441	cctccccct	agtcttttct	atttggagca	ggacaaaaat	gatttgaagt	gaatcagcaa
52501	gttttaggcat	taagcattct	cagctccagc	tagtttccat	gttccttttg	cttccgccat
52561	caccaagtgt	gagtaagagg	aaggacagag	aaccctgtaca	aaggccacgt	gaaacagaca
52621	cacttcctaa	gtggattacc	acgagctttg	cttcccgtgc	aagctgccag	gacttattcg
52681	tcttcattcc	cttcttctaa	ggtacaaaga	taggaagact	aatgctttcc	tcttggatta
52741	ctgttttcta	cgggcactga	ggataaccac	agttcagggtg	gagttcacct	tggaggggac
52801	caaggacact	gagcagcaat	gaggaccaat	atcatgtctg	aagaggagg	caagatgctg
52861	ccttaggaac	tgaaaagaat	taacctaaga	agtggtaaaa	tcataaacia	acaaacaaac
52921	aaacaaaata	agataagatt	tatgtctaa	aggctgatga	gaatggctta	gtgggaaagg
52981	tacctgctgt	caagacaggg	ggcctatgtt	catgtcccaa	gacaggtatg	gtaaaagatg
53041	aaaaccaact	ccctcaaggt	ctaagtaggt	atgcacatgc	atatgcatga	acacacacac
53101	acacacacac	acacacacac	actacacaca	tacaaacata	aaaaattccc	aaagctccgt
53161	caccccactc	ccatgtgcaa	aaccaaccat	gacccttatg	cctcagtttc	cctaactgaa
53221	aacctttctc	tacaacacta	tgaagccatc	tcatttcccta	atgtatctca	agtcacagga
53281	gagcatgacc	aggcttggag	atcacactat	ttgggctagt	atataggccc	tttgtgctct
53341	gaccacgatg	aacactcaag	agcatttctg	ctcttggcca	gggttgctaa	gttctcagca
53401	gatgccagac	tctaggaggc	cagcaacagc	cctctagcac	gtccaggagt	actctccaga
53461	cgacatggca	tgtgaggacc	aagttgagct	catttatcta	tttaaccatt	ttcactctga
53521	tccaggggtct	cttcctataa	tctaggggat	gtcctcagag	gatgtgccat	cacaggtgct
53581	tccttgtcac	gctgaccttt	agcaccgtta	gggtcttaca	tacacatggc	aaagcaggac
53641	ctctgcagtt	ccgtgacatg	tacttatagg	ctcatgacac	atactgcagt	gtatgtgtgt
53701	aatgttgtgt	aactgttcaa	caaagagctg	tcacttaaca	tgtgaaaaac	aaccaacaat
53761	ggggacttaa	ttatgtgcag	gaaagggctg	ggctgacatt	ttgtcagttc	atggtaatat
53821	gttgtcatte	ttttcttcat	ctcgagaaa	aagaaatctt	tagttttgtt	agagcctctt
53881	aagggtgagca	cacatccata	cacttatcta	agtaaataag	caaacagcaa	tggggggagg
53941	tagaatacgc	tgaagccggg	gtgtatacac	tgaagctggg	tatatatact	ggagctaggg
54001	tatatacact	gaactgtgga	gtatacattg	atgctaagat	atatgtgaag	tatttttttaa
54061	aaaattctga	catgagttag	acaaaattta	gatctgatga	atttaaagat	taagttttac
54121	ttccgaaaaga	gactttcgtg	atccaacctg	tctctttaca	ttgaattaaa	attttgtttt
54181	atgtttgtgg	gtgttttgcc	tgcattgtgtg	tttgtgcact	acctgcccac	ggaggcccat
54241	ggaggccagc	agaacagtga	ataccgacag	ttatgagccg	ccacgtgggt	gctgggaatc
54301	caccaggggt	tctttggaag	agcagccagt	gctcttaact	gctgagccat	ctctatagcc
54361	ctttctctct	ctacatgagg	aagcggaggc	ccagaggcat	ctgttaactg	aggactggag
54421	gtaaccaatg	gcaaaaacag	ccccgagagc	acaagttacg	ggtttactct	gggcatgtgt
54481	caaaggcatt	aagcacattc	tgatgttagg	aggtgcctta	aaggaccact	ctccagtctc
54541	cttctgtaga	ctgggtatta	ctggggtagg	atgctgctgc	tgggagaaac	aggcatagct
54601	ttgtggctct	gctatcaatg	cataaccgc	cttgtggctc	tctcctgaaa	cttcagaaac
54661	acacatgagg	acatttgtga	acaggtactc	agaactaaaa	tgaagggaacc	atccatcact
54721	tggtagatga	ttacgttgtg	gaggaaaaga	aaacgaaagc	ttctacagag	aaggggagca
54781	aaccagaaa	gggcccagga	agagggaagtt	ccccttacag	cgaatgcaga	gacaagctgc

FIGURE 6W

```

54841 ttagttagcc acaggtatca aagccagggc cgaagtgaga gcctcagagc ctgagggcagc
54901 cccatgaaaag gcatttgggc cagcaatatt tctcaacacc cccatcagtt aactcttagt
54961 gaggacttag aagccaaact taagccaggt gcttgtgtgtg cataccttta atgccagcac
55021 ttgggagaca gaggcaagcg aatctctgag agttcgaggc cagcctgggc tacgaagcga
55081 gttccaggac agccggggct gcacagaaaa aaaaaacaaa caaatgctg tctcaaaaaa
55141 caacaaacaa acaaacacaa aaataacaac aacaaaaaag aagtcagact cacatatgct
55201 aaaaagctgg ctgtgggcta acacaacaga aggggacact ccacagtgc taatcaaaaa
55261 attacacagg acctactcag gttcacagtt tgaaaatctc actagcctta agcagaatca
55321 tgcagctgga atggttatca tttaaaagcg caggcacaa actggcctta tgcctagcct
55381 ggggagtagg ttcagggttt gagaagtgtc tgaagcagtg tcggggcaag gggagagcag
55441 tgtgtgccat caaggtaagg atagcatgct cacatgtaca cgtgtgtgtg tgtgtgtgtg
55501 tgtgtgtgtg tgtgtgagtg tgtttgtgag tgtgtatgag agtgtgagag tgtgtgtgag
55561 tgtgtgtgtg tgtgtgtgtg tgtaatgggc tcctgaggaa acagtggctc cgtgcacaga
55621 ccgggctgcg agtcactctg gccaaaacct ctgacaacct gaagagtgc ctttatttag
55681 tacttactga aaagggtacc agccacgggc atgaccctga ggtaaagaag aggtcaccc
55741 cgaggacctc gagagtaaac gtatgctagg cagtcaagtg tactggaaag tctgtggggg
55801 aggccagccc ggcctgagtg ggaagctgtg ggaaggggtg gccatgacac gtggtagagc
55861 agctgggggt ggtgtaagat gtaggcaggg gtagcgggga tgcagaaaca agagcacaga
55921 gatgctggag gttgaatggg tgggatgcag agacagacct tccaaagatc ccagtctgcc
55981 tacacttgga caatcctata tagagggaac tgacaagaaa gcataatctc aggcaactca
56041 ggctgagaag caaatggact taaagacacg tttcctacaa gccagctcct gaaaaaagtg
56101 gaccaagcaa gataacacag cgaggaacaa aactgacctc cacttctggc ctgagagacc
56161 ggagataact tttgagatca ccgcgtgtca ttagttccat gatgaccagg gtgggctggc
56221 cttgggatac cacaccagc aaccggacct ggaggaatca agaaaaggac tcagaggggg
56281 aggggggcat cccacatgat gacctacgcc tctcggaact ggggtgtgct ggggcctgta
56341 gccaggagca gagttctggg gggagggcga gggcgaggct cccacctcaa gggctctgtg
56401 gtggcaagaa tgcaacgggg aaactaccca ctgggaagag ggcaaggcaa caattcgtag
56461 ctggccaagg acatacaggg tggtectttc tgtccatact ttctgtccat gtctcatctt
56521 ggcttcttac cacatggtga caattgaact ccttcatac cgaggcctcg ttgagaaact
56581 cgattctttc acgcatactt gcagcctcgt ttaccgtctt gatggccact ctggtttcgg
56641 gttcatectt gaccacaccc ttggccactc ctcatagac catcccaaag gacccttgtc
56701 cgagctcccg gttcatggtg atcttctctc gagctacctc ccattcatca ggcacgtaca
56761 ctagtaacag acaggatgga aacggccctt agacagagat tacaagatgc tgttccctaa
56821 gaccaccaa ggagaacatc aaggtacaaa cagtcagca cgggtactca atctctgagg
56881 actccatgac actttgaggg tggtaactcg agctaagaac cagaaggaaa ccaagaaacc
56941 taagatagga aaaccaaata aaaccaaaca acagtgggtc ctttttcata tccttggcaa
57001 aaccccaacc caacaaaata aaaaaagcaa attagcccta agagacaaag aaagtgggac
57061 ttctgttttg cctgtcttca tcaagggatg gaaatgtagg tcagaagggg agaacagtgg
57121 gaggggaaag gaccaaaggg ggtcaaactc cctcctccct ggatgaagcc agaggtgaga
57181 aacatcctct gcatggcctg ggtgccagtt tacaggccac ccagccccac tgtaggcctt

```

FIGURE 6X

```

57241 cagcgcttga agtcgtgctg gaagtaagac atatactgca ttttaaagac ttgcttaaaa
57301 caagtataaaa aagataactt ttaaaagatt ttaaaattta cgtatacatg tgaaaatctc
57361 tctctctctc tctctctctc tctctctctc tctctctgtg tgtgtgtgtg tgtgtgtgta
57421 tgagcacaca cacatgcaca gatgtgaggg accacccgtg tttgggtgcc tgggaaaccc
57481 agaagacagt gttggcttct cggacctata gttacagatg gcgggaggtc tcttcacaga
57541 ggtgctggga actgaattag agttctccag aaggtcagca aggctctcaa ctgctgggcc
57601 catttttttt tccagctttg tattccaaag acttgggtta agcaagttaa aaaagatagc
57661 ttttatatta actgttggat gttgtgggct aaatgaaaat tctaacagat ttatctcatc
57721 agctttttaca cttaaaaaaa catggctact agctgggtgt ggcaacagga aactgcagtc
57781 ccaccccagc ccactgggca tggaggttgg agatgggggtc tgctgaacta aaggcatctt
57841 cagatttgtgt ttcaaaacac caagacaatg tgtcagccgc ctgggatgtc tatcagttca
57901 cgcacttcat tccacttctt ccatagccat gtccgacaac aagctcaagg tggctgagag
57961 ggagaaaactc agtcaacact aaaggcagag actcaagaga agagtcttca gccatcaaaa
58021 gaaaccgcag aaaaggagat gagaggccag cccccacccc cacccccgcg gagcgctgag
58081 gtaggtcttg tgcactacaa gcactgtctc cctatatctc tccatacage tgtttaactc
58141 tgggaagctgc agaggttggg tccagtttaa cacacctgc tgcccccttc accgagatct
58201 agtgacgata cagactgcct gcctttttcca cctgagagga aggagaactc acacgttgat
58261 gaagaaaaaa gcagggttgg gagatgaaac ccagggttca aatcccagat gattcaagggt
58321 gctctacagg ctgtaaaatg cagtttaatc ccagggtgtg gctgtgttgt ttttcaagtgt
58381 atttgactta gtggaatgca tactgtttta aaaccatcaa ttttgtgaat ggctgttttc
58441 cctgcatgca tctgcactgt acgcacatag cacctgggtg ccactggcac gtgggttctg
58501 ggaatcaaat cagggtcctt ctagaaaagc agccagtgtg ttttaactgct gagccatctc
58561 tctagccccg gaatgcatga aagtattaaa acttaacaca agaagccaaa ctcttgccca
58621 acacaggtga agcctaggag cccctttcca ggggatctct agtgagggaa gtgagcgctg
58681 ggatggaggg ggactcagta gtgacccac ggctttggcc tgcactctgc aatgccagga
58741 acctccctga cacggacctg aacagaattc cttctccagc ttccattttt ggttatgctt
58801 gatctgggtt gagaaaaata aataaacgaa tagttctcag aaggaagggg gaagagaagg
58861 aaagaaaata agagaggcaa gtaagaaaga ccaaacacag gctccatccc ataacgccag
58921 tgggtacagc gagaactgaa atcatatcaa attaatacgt aagatctgga aagagaatac
58981 ctgctccatg agaaccataa cctaacagag ttactgacag ccctgtctaa cagaggatgg
59041 ccagcaggca tggcaagaag gaagccctag cttagagaca ggcctgggag gggaaatcacg
59101 gctgtgtttg tttttatgct tttagatgcc gagctgcagt tggaggtggg agaccccacc
59161 agcaggtcat cacggttatc agtcaccctc agagcacaag cccttacttc taagtgatgt
59221 ctttaagggaa ggggtgtttat tataaattcg gggctgggga cccattgac ttgtattttg
59281 aagaatggaa catacatctt gtggtggttt gaataggagt ggccccca gactcacaca
59341 tttgaatgct tggtcattag ggagcagtga tacctgacag agattaggag gtgtggcctt
59401 gttggaggaa gtgtggcacc gaggggtgggc tttgaggttt caaataaccag gcctatgtct
59461 tgctctatct ttgctgcctg atccagatgt agaactctta acccctctcc agcaccatag
59521 caccatgtct gcctacatac catcatgttt gctaccatta caacatgggc ctaaaccctt
59581 gaacctgtaa gctcctttta gccagccact ttccatgaga agagctgctg tggtaacagg

```

FIGURE 6Y


```

59641 tgtctcttca cagcagcaga acactaagac acatacttat ctgtctactc acttactctt
59701 acttactggc tgatttgggg acaggactgc tctatcttgt tcatacttgc cttgaacttg
59761 ctatgtaatc caagctagcc ctgaattgac aacttttctg cctcagtgtc cccagtagct
59821 ggattccagg tttgtgtggc cacatttggc tcctgtgcat gtttttgtat ttcatggaat
59881 atgtatgtct ggtaatttct caactagaat tctgtcttcc atgggcctca gacaacttgt
59941 gaccctgcag aggctgagct tgctgaggag agcagagggg gaaaggctct tataacacct
60001 ctctgtaagg atggggacca ctgtctccat ttattacctc taaggatcca ggctggcttt
60061 taatgagaat caactacacg gcttgcttgc tgcagagcat ggagttaaaa gcccatcaca
60121 tccattccct gggagggtccc tgaagttagt ggtctcaacc ctttttctaa actcaatcca
60181 gctgccgact ttagccagag tacctcagct ttgccagcca gagctgttca taaacttcgt
60241 acaatgttat cagcactttc ctgtagggca ttctcagtgc actcttgaca acagcaacat
60301 gcagattaac tctgggagaa agacgttttt aaagcacctt tcagatgcaa tgtcactttg
60361 tagctctttg aggcaaaagg cttgtgtctg tgctgtgctt gtcaaaaggc caaacaacc
60421 aagtgcagat gaggtgacag tgttctcacc tgttgacctg ggtagtgaca agtttgttct
60481 tgctttgttt tgaagggggg agggagacta ttctctggc acctcttttc tctttataa
60541 ttattgacct agacacaatg gctgcacggg tctggctagt taggggacgg aggcaagggtg
60601 ttcagatcat ctgaggccag gagtttgagg ctggcctgta taaacaatgc atatttagtt
60661 tcttgatttt tgcccgtttg ctttcttgtt tgttttggtg gtgtgaggac agaaccggtt
60721 ctggaacacc gtaggcaaat gctctatcac taaactacat atccaaactc acttcatttg
60781 tttgtttgtt tttaggagaa agatagtctc cgtaagtaac tatgtaacta tgctttcaag
60841 tgtggtgctt acccttctag tgtattttct atgctttata ggcacaaacg tatgcacata
60901 tgcctactta aaaaataact ctgcaagacc ttttgcaaac agaaataaca tcattattct
60961 gcacctgatt caaattcaga agaggctggt cttgactggc ttactatac acataatcca
61021 gttataaatg attaaagaaa ccatagtaaa accatacgca cttacatggg gcttttaaat
61081 tacaaagggt tttctctttt tttttttttt cccatgtgag caggataatc aatcggactg
61141 tgtcttatct gggccgcac cacttacact tctggagcaa agaaacattc ctctgaaca
61201 aactcctgcy ctgcacagac ccccatctaa ccagattccc tacatagccc agcaacctca
61261 cagctagctc ttccatacac cacatcatga ggattcagga ggaaggcttg ggatgtccct
61321 tgtgcagact tcccacggct cagctgtggg agcctgaaca agtccttctc agagattctt
61381 tttttgctg catctagata gacatgagaa agctccaagg gctaatacag gagaggacct
61441 ctccccagct tacttagaag gtctgaagcc aagcataagc gctaggggaa aaaaagagac
61501 cagtagctaa aacacagggt ccgagtcaga acttctgagc catttaatta aatgactttc
61561 attagttact gccaaaggga atgtaaatgg gtgcataggc tgtatgacct taatcaggat
61621 agaacagcag agggattcca agatcatata acgctatata gccctcactg gccagggaac
61681 gcctgcagcc ccacctgag ttgataccca ctcaggatgc ctggctggct acagcagtc
61741 tctgactaga cggtagtaat tagaatgctc ctttctactc gatgccacac ttcaagcggc
61801 taactgaact gcttagcaga ccggccaccg gcactctccag agcctggttt ctactggggc
61861 atctgagagt cccagaatgt ctgacagtca ctgagtgtta aagatgttat taaaagacaa
61921 gaaggaaatg gtaccaaagg cagatcctgg gacaaaggta tctcaaaatt acgcaacgct
61981 tttctccagt cagcacctga cagctcccat attcccacac cttggccagg acgcttacca

```

FIGURE 6X

62041	tcagctgcgc	tgaaatactc	gggggttcaca	gaagcataca	gcactccatt	gccaacacctg
62101	ctgttatttc	tgtcaaaaaa	aaaaagatga	aaaccagggtc	aacaaatccc	atctctatac
62161	atctctgtaa	ataccttttc	ttttcctttt	tttctttctc	acgagttatc	ttgagcaagg
62221	gacgcaaacc	atgatcactg	ctgacgggac	ccttgccctgc	actcctgate	caggcccccg
62281	tatctgagga	caaattctttc	cactttttgcc	ctggccctcag	attagagctt	ctaaagaaac
62341	atctgtttct	ttgctttcact	ggaaataaca	aggcccaactc	catgggaagc	taaactggca
62401	tgcttgagga	agctcttaca	aggcagcaat	ctgtgtgcta	gaacagccag	aaagcagacg
62461	acgggtacag	agaaggaagc	aacccctctc	ctgttgctgt	tagtcattag	gaaatgtcct
62521	tttttccccct	ctgaagaatg	tctgactagg	aactctggct	gtccagctctg	catgggtattt
62581	tccccacag	acgagctatg	ttcaagttca	aatcatcaag	ccaatgcgcc	acaagtactg
62641	tcttccgctg	gcccaggcac	tcacctcttt	ctatggaaga	catacagcat	gataaccagc
62701	cccccaacga	tcagcaggat	ggcaaccggc	agagcaatga	tcagatgcat	gaagtcttca
62761	tacgtcgtcg	cagagacaag	gaagaaacag	gaagacgtca	cgcacgaggt	gaataactgg
62821	ctcacttcat	ttctgtgtat	ggttggaagg	atgataaaac	cgcctctgga	atagccttta
62881	ctccctcatc	tcacaagagg	agtcttcgag	gagtcctcta	gtgctgggac	aagaccagca
62941	gacaaactga	attgttttga	gaaaggtaaa	taaatacaga	ctgaagcaca	cactccttta
63001	aagcactgca	tattctgaat	acagcaagta	attctgaagg	caagcccttc	ctgtgtgtag
63061	ttttgtggaa	gttttagctga	aggaaaatga	gcagacactc	acacacttac	tagttgtctca
63121	cgctattctt	atcttttaag	aaagtccac	agacagcttg	ctcgccactc	ccgtcccccc
63181	aaagcactgg	atgacactcc	ctgccaatgt	tgctctgagt	gttctacaaa	tatgtaaaac
63241	caattcaagt	ctgaacttgc	taccagtacc	tgggtggtaa	gtaccacagg	atggcctcca
63301	ggggttcagg	tctacacctc	tgaaaatcct	gagaattctg	ccagattcaa	gaactcagtc
63361	tgtggacagg	tggattaaca	tggatgtacg	ctgggcatag	ggggaagaag	agatggggga
63421	gcgagggttg	cttcccctag	ggaaacggct	tcccgtgcag	aggaatgtct	tcagagtggt
63481	attgaatgat	gaaggggttt	ggttccagct	aagtgggttc	cgccccattc	ttcagattga
63541	gaggagtcag	tggtcagcag	ttaagcctat	gaactgcagc	agtgaccagg	atattgagat
63601	gttcctcagt	atgtaacact	ggcaccttga	tctggggaca	accaacagct	gtctaagtgc
63661	actgaaggcc	tgagcactgg	gaggaaattc	ttgcccgaat	ctgtaaacct	agctgactct
63721	ctgtagtgct	gtggacacta	gagaagaacc	tgctactagc	acttttctga	agcagtgagc
63781	ttctaccac	agataaactag	ctctcaggcc	tcgccagaga	agcctctttc	tgcagcagat
63841	ggaaaggatt	agagaaaacc	atgactggct	aaaatgcagg	gaaccactga	ccatggggta
63901	cccatgccca	actgatgata	gaccacacac	acaacccccca	caacaaatgc	tcatggaaca
63961	ctgcaaaata	agtgcgtggg	acgattctaa	gatccagaag	cccagggtgt	ctgctgaggg
64021	atgccacctt	ttatgtaaga	caccacccgc	atgctggaat	ccaacaacg	cggttaccta
64081	aacttgcgta	atgacaatac	cagttcacat	gctttgaagt	gtggggaatc	tctgaagccc
64141	cacccttaga	tgagaagtta	ccagcagtta	atggctgctg	agagagaagg	aggatcagtc
64201	tttatcaggc	ataagcttgc	tgataggtta	gccaatccca	cgtgggtcatc	cctaaacaca
64261	tacatgtacc	agtaacacta	aatgagcttg	gcagagcatg	tgtgtatatg	tatgtagggtg
64321	tatatgcata	tatgtatata	gacatatatg	tatcaatgtg	cgcacaagtt	gcttagcaac
64381	aataattaa	gtagtcatgg	aactgagaga	ggtgggcatg	gaagaagctg	ggagagggag

FIGURE 6Z

64441	gagccagatg	gtgtaaatac	agtactcatg	tcagaagttc	taaaaggcta	aaactaaaac
64501	aatgaagaag	aagcatcagt	gaactcttcc	aaggccagac	tgaaaacgga	ttcatgtact
64561	gggaagatga	gtgtgtctga	ggacacactg	ggggcctctg	cacactgcca	ggtctagagg
64621	agttaaggga	acgtaccagt	ctcctgtggc	atgctatgca	tcgctccagt	cagacctcag
64681	gaagaaatcc	ttttccataa	gcaagatcag	agaggcgctc	taactttgcc	aggggtgcac
64741	ggataactga	caagttccaa	agtcagagcc	tggctttcct	gcagccctgg	ctcagaacag
64801	ccgcaaccca	gtaactggga	ggctggattc	ccgtcatgta	ccagaaagaa	tcagtaagac
64861	tccagttaat	atgggaaaac	aaacaaacaa	aaatgagtat	gcggagaaga	agaagcgaag
64921	ggctgtgagc	tttcatctga	gagcccaacg	gaatgcagat	cagggaatga	aacggaccga
64981	agtgcttcca	tgaaagcact	ttagatttca	ggcttataag	gagtctatag	caactattgg
65041	acacccaagt	tgacatgtct	acacaataag	gatggcgttg	tgggtaaaaa	cacttgctat
65101	gttaccctgg	caaccagaat	tcaatccctg	gaacctgaga	atcaactctt	caatgttgtc
65161	ctctgacctc	tgcacatgtg	cacaccaagt	acacaccaac	agtatagaga	tgtctccttg
65221	gaaaggagct	ggggactcag	tggagacatg	ttcctggacc	gcgagccact	caccaatggt
65281	tgggtctacct	ctaaactcta	ttcttaatcc	tgaataacta	caaaagccaa	aattaagtc
65341	ttttcaaaaat	cgatgggatt	gcagaccttc	cagtttctaa	aagtactccc	acgtgcgcct
65401	ccctgccaga	gagaagctcc	gagctttcct	tttcccctag	gagaattcgt	ggttttgtgt
65461	tcctgattct	acgggtcagg	ttgttctgtg	ttctttttga	gtttcacatt	tcaacaggga
65521	cacagaggaa	ctggaacaca	tccagaagga	caaaactgac	agaaaattgt	ctatgcaact
65581	ggctttcaag	aaagggccca	aagacctgag	aatatattaat	cgggagggaa	gaagtctgaa
65641	gaggagttta	atagaattca	cgcaccaaga	tttccttaaa	aacagcaggt	gatgccgagc
65701	tttcaatgtc	cccctctgag	gattagacct	aagaaaactg	tgctaaaactg	cgtcttgtcg
65761	gacaccggga	aaatttccca	gaagccaaga	gcgctagcac	gcagcttcaa	tccccctgtg
65821	ggatgtgcca	acttccactg	gagaaacccc	attagaggac	ctcttaagag	tccccagtgg
65881	cattgcagtc	ttagctttac	aaaggcagct	acaaacatgc	cctctcctaa	gaaaagccag
65941	actcacttag	cttcagaagt	caagactgct	ccttcagaga	acaccaccca	atttccagaa
66001	ctccagtgtt	ggcttagtag	cacgacgtgc	tacagataag	cggaaatgta	ccccaaggca
66061	gagatgctca	gggcttcggt	gccggcctgt	gacgttattg	ggaagtagtg	gcaggtaacc
66121	ttaggagctg	ggttctagag	gaagtcaggt	cactggaagc	aggtgtcctg	tgagagaact
66181	gtgaaacccg	ggccctttct	gccttttgga	ggtaaccagc	ttggttccat	catgtgcttc
66241	ctgcttctga	cattttgtct	cagaacagcc	caaaagtaat	agaatcaaca	gacagagcac
66301	gacaaccccc	gaaactgtgg	gggccacccc	tctaatac	tctgggtttt	gccacatcgg
66361	agagctacag	taacatcaca	atggagagtt	agcacataag	ctaactgatg	acgctaggct
66421	accagaaaaa	aaatgagaaa	attcagagtc	tacctgacag	aactctcagt	ctcatcatct
66481	ctcaatctag	acacagtagc	agcagataca	gggaatccta	gcttcctgct	tacggttcta
66541	tttacttctg	tctttgtgca	gtcacgatga	ggattttcga	atgtcttgcg	tatctttgaa
66601	tatctggaac	tggctaggtg	ggctatcgaa	gtgtgaactg	acataaagtt	atacatgtat
66661	acataatttac	cacatacaac	atatcttaaa	gcatgtgtac	attaacccaa	tcagcatcag
66721	cattaagtcg	cattgttacc	atttctgtgg	tggtaacact	ttcttagcaa	tattcaataa
66781	tgcctttatta	accatagcta	gtgtgttata	aagctcactc	ttctatctac	ctaaaattgt

FIGURE 6AA

```

66841 gtacctttttg agcaacaccc cctaagttat gttcccctgg taacctgcaa gactctgagt
66901 tcacccttttt agattttatnt catatatacg tgagatcacg tgggtgtttcc ctttctgcac
66961 cttctatttaa cagtattcca ttacatataat ggaccacatt tttaccaggg cacctgctgg
67021 aggatacttc attgtttggc tactgtgact agtggggcaa aaaaacaagg ggggtgtaga
67081 tttcaacaca actaacttcc atttcttttg gactgggatt gctggatctg ttgagacctt
67141 gtctgaatca agaattccaga agagaccacg aagaacataa gacattagga aacaacagtt
67201 cccacacccc tagattctag cctcaaagct gagctgagat tttggggggg ggggagtgca
67261 aaaggaattc acatttgatc ctgtattttgt ttggatatta catgaacacg aaataatcta
67321 aaaaaatttg gcttctcata agacacgtaa aaattcacta tgtattatnt caccaaaaag
67381 actcaattttt tttttttttt cgggtcaaaca agcatgcagc ccttgcatnt aacatttcac
67441 aacattttact tttaaatctg aatcctaaca gctcactcag tggtttctgt gaactgtgaa
67501 acattatcca ctagggtggg tctgtgcaaa ataacgcaca gagtatctnt caatgcatcc
67561 tgggtggatgg tgaagagcac agaggagggg aagactctga ctgggatgtt gtctctcaga
67621 ttcctgtccc ggagcagtga caccagacga tccctgggga gacgtgagc gctgggtcac
67681 cctcaccgac caggcaggag acctgatact caactcaatg ctttgcaaaa tgcctccaca
67741 cctgagccac gatgagaaca agatatcttc taggttgtag gatactcttc tgttactcac
67801 aagagaaggc tccaaggctc agcaccttcc cagctctggg atgtgcgtgc gagtgcacgt
67861 gcgtgcgagt gttgggggtg ggggaagggt atggtggcac agatgtgtgt ccactgtgag
67921 taaataccaa gtgtcttctt ttctggcggt acacctccgt tttctagata cggcttctcg
67981 ctgaaagcaa aggtcaccaa tggaccattc tggctagcta gggatctgca aaactttgac
68041 tgtcgatctc ctgagcaccc aggaagcaca ctaccgcccc tggtttccgt caaggacttg
68101 aacttagatc ttaagcagg cactttccct agtaagccac ctctcaacc cagccagctc
68161 tgttctaaca gaaaaccaga gagcccaga agctcagggc ttctgagttc tggcccagcc
68221 agctttgaaa tttaccgtgc gtctccctca ataagactta cttttggcgg ggacatagaa
68281 gaacacagga tctgtccatg acccattccc agagagggag gtagcctgaa tccgggctgt
68341 atagttccct gggtttagac ggttgagttt ggccctccg tacttctgt actcctgtct
68401 ggacacacat tcccgtgat cctatggaaa tataaggcgt taatttctta caagcatggg
68461 tgagatctga catctgtcaa ctcaagtcac catgctgtga ctccagctgc ccaacctctc
68521 cttacattgt ccagagtatc aacataaagg aagcaaggat accggaaaag tggttttcag
68581 gttggcacat ggaaaatggg aatcaaatat gttggtaatt aaatcaaata tgttggtaac
68641 tccagaggaa taaaagatca tcaagacgtg tctagtctgc ggctggaggc ctagctacag
68701 tttcattggt tgtatgaagt ccagccagct ccatgcaccc aagttactac tcaataaaga
68761 tggcggtgct aggaagacct ttatccttcc cgactgccc tctttctccc ctgtctgctt
68821 agcagtcagc agacaaccag tatgccatag cacgtgctct cagcgtgaa acacatgcag
68881 ctgcaggcca tggtatccct cttacctcga cttgcgaccc gtatttaatt tcatacatta
68941 ggatcaatcc gttgggggtc tcgggttctg gccactttaa aaagatggag ttttcgggtc
69001 ttggctccca ggtcaccgga ccagggatat catctgtctc ttctgcataa ttaatgtaaa
69061 caagcagtca aattgggttt aggtccccag aaagaatgat aaacgggtgtg ctaacttgag
69121 aacaactgtt cccccaatcc ttgtatatac aggactctgg acaggggacc ttgtaggagt
69181 tctttctctga gatggctgct ggcacagcgc ctccatcccc tctgactgaa aaaacctgtg

```

FIGURE 6BB

69241	gccaaagtaca	agtgatcacg	cctgaaaaac	ctatgtaaca	ttctccaggt	ccatttttcc
69301	acctaataaag	ttataaaaaa	aaaaaaagaa	cccttcaaac	agagcggccc	tggggaaggg
69361	cagtgcgca	cagcgtgctg	agcctccagc	tgtggcactg	acacattcac	agccccacac
69421	ctcacacggg	agggaggaag	ggccagttcc	gaggtggcc	tctgaggcag	ctgttccggc
69481	caactgtctct	tccagccacc	gctggcctca	cttctggtgg	tgaaccacag	ctgttgggtg
69541	acagctgatg	acagccgaga	gaggcctggg	gagataagct	gttctctgtc	tcttctagga
69601	ttgggaaact	gaggcacggg	tggctgaggg	ctacacggga	gtgccaaagc	cgatctcaga
69661	agctcttact	gccccagttc	ccagcatgct	ttgttctccc	caactgactga	cacctcctcc
69721	acgaatgaga	agtggcaa	ggctggcagg	gtgacaggca	gtatctaact	gtaggaggag
69781	gccccacagg	tgatctagct	gaccacgagg	acaacgcttc	ctctgcatca	agctttgaga
69841	cctggagggg	ccctcacagg	tctgtggtgt	gctaaggcct	ttgtgctctc	agtctgtagc
69901	ctctggcact	gagagaagac	aggactttag	gagattgggc	ttcaatgaaa	gaagtgatga
69961	aatacgatgt	gttgcttcat	tgcaagcccc	aaagcagtga	gaggcaagtg	cctgtggtct
70021	aaaactcctg	aaacactgag	acaaaaataa	acctttcctt	ctggtaagac	aactgccttg
70081	ggatatttgt	aatagcaaca	gaaagctaac	tcttcagct	gtgcacagaa	gggcacaggg
70141	gtgggtgtga	gcatgtgcat	cgtgaaccaa	gccaaggagt	gagagccctg	aaaggggctt
70201	gtaaagagt	tctatggtta	agtctggatg	ggagctggca	ctaggaatac	attctctgtt
70261	ccttaggcac	ctgacggacg	acgttgtgtg	ccaacaacca	cacattcgta	ggcctgaatc
70321	taagggctgt	cagcctcccc	cgccttggct	gtaagttggc	ggcggggcta	cctgccgtac
70381	ctgctggcat	ggttctcgca	aagacgaagt	tggaggcgct	gcagcccagc	ttctcagcct
70441	cgtggttgca	gctgtggata	tcgatgcggt	acagagtga	aggccggagg	ttggagatga
70501	cagtcctctc	cttggtatcc	actctgctct	caaagaaagg	gtactctgtc	tcgaactcct
70561	ccgggtctgt	gatattgtag	gtgtcagcta	ccgtggtgtt	cctgcttcgg	ctggacatgg
70621	tcgtgtggc	cacttgcagc	acgtctctcc	gcctcctttc	gggcctgcaa	ggaggagaaa
70681	gaaggctcagc	tgctaagttc	tttagttttc	tttgtctttt	ccatggctag	ggtagaagta
70741	ataggaaagt	cctagccttg	aactaaaaga	aactacttag	gctccttgga	taagaaccaa
70801	caaataacca	ggattttcgc	cttcacaacc	catcctgtac	tctcttgaga	catcctcaga
70861	gaaacatgtg	cacacatggg	tctaggaaac	agtgtgccag	ccatttttag	ccagacagtg
70921	ctctgtttta	ccagacagtg	ctacttgggc	aggcctgata	actgagcatt	caacacgaca
70981	aaccatcagc	ctcataagac	tggttgggaa	agggtaggcc	taagacacac	aaggtagaag
71041	agacccaaag	tccaacagta	gtggcttctt	tgatcttctc	tgaaatgaag	atgccctagt
71101	ttaagcagct	agcaagtacc	taaatcccag	cgcttttctc	gaggaacagg	gtctcctatt
71161	gatgaatgcc	cccagtcctc	agtacacagc	atggctcttg	aggttcatca	aacctggctt
71221	tgcatacctc	ttggcagtga	gcttgtctgt	gataggagcg	gagcctctgt	tactactga
71281	cttgtgttag	cttaagaaac	tacagaaaag	caacaggaac	agagtctggg	gctccctctc
71341	ttccagaaaa	aacttctaac	attcataaaa	actgaaaaaa	aaaataaata	aaaatatgac
71401	atcagataag	cagccctatg	ggctggaagc	aaccctcagg	ttgtctgcag	gtgaacagtg
71461	ggcaagctgg	gtattgaggc	tggtgctggc	attgcttgtg	acaggacaaa	ggatgagagg
71521	aacaggtggg	actgcactgc	gtctggtaag	aacatgacag	agtaagacaa	aaggggagcct
71581	agagtacggg	gctcgaggcg	ccttggaagc	catgcccaag	gcctatggat	gctccctagg

FIGURE 6CC

```

71641 ccaacatctg ggagagtaca gtagggagtt ggggggaaagg gccgcatgct ccctgggtctt
71701 cagcagatgg atctgctacc aaaaccatag ttctttgtcg ggtactgaca tgccagtttc
71761 cattgaaagt atatcaactg ccataccagg gcccatctca aaagttagga atggggattt
71821 gttatcataa tgctggggaa agagatagga aatgagggtg ctattctacc atgctcacac
71881 ccagcaaacc ataaaccgac caatcaacaa accatggaag gaaagataaa ggaaactact
71941 ttttcaggta tgtgtgtgcg tgcattgcag tgtgctgctg tgtgtgtgtg tgtgtgtgtg
72001 tgtgtgtgtg tgtgtgtggc ggctaggcag atgttcaaaa cattattatt aaatttcctg
72061 cctccctttc aaaccagagc aacacaaacg tgtgccttca tgtaagaagt tgcttgtgtt
72121 tgattttatt caaaatgata ctgggtccact tcttgccttg acccaccctc aacaaactgg
72181 gctatagcac caagcagact cagtggcctc cttacttata aacactgcac tcttgcatat
72241 tattcaacag ttactgtgga cacagagtca ggaccatgaa gggaggcaat ataggcatca
72301 gaaggctagg gatgattcaa acagagtggg ccaggggggtg gcaaacagca cactatcagc
72361 tttccttact ccataaagta tcttgatgct actggaaaaa cttgtactgt ttaacatctg
72421 agaatgtttt agtgacagaa acatttttga agcgtcttca aaaatgaaga tggcggccaa
72481 tgaaagccat ttactgatac caagtttagg aagtaacttt ataaatagta gcctccactc
72541 tactataaac tcacaggcaa agtcagacaa tgcagaaaaga ctaaactctga tatatttgcc
72601 ttcagccccc agataaacgt gcacctagaa tgacatgaag gtaggaatag gtttttaggta
72661 aactcggttg tatgatgaca gagttgctcc tgtcatctag ggtgctcctt tatgggacct
72721 tgcgagacct cgtatagatg tcagatcctt gcctcggtag gaggtaaaaa acaacccccc
72781 aaaccctaatt ggccaggtgt ggtgacccct atctgcatgc tgggtctgtt ttaggacact
72841 gaggtgagga cacttacacg aaggaatgtg accgagagaa aattcgtttc aaaccacag
72901 tacaagccct gcacgggtccc atctgggtca accacagcct tgccgcccaa tcacttagcc
72961 tagcgttaca cagctgatga taacagcagt cacaaagtga tgtcatctga gtataactaa
73021 acaccaaggg ctttctgcta tggtcgggtc acccttggtt ctcagtctgt attgttagat
73081 gtttggtcac tagtggggca gctgcaggag gaacctttag ggaatggtcc tgttaggggg
73141 agatcctgat gtagcaaca agctaagtgc tcaacgtctg ttcagcttcc tgtctgccct
73201 gaaatcgctg ctgtgccata agtacttttg ccatgcgaca cacccaaaga tgccttcac
73261 aacaaaagcc aactggctc cttgtttctt taactttaaa actgttgagc tatgcacacc
73321 actaagcatc acgcaatttg ttagcaacaa tgaaagaacg acctaaacct ctggccatgc
73381 ctacaggagt cctggatttg actgacaccc agtatagggg tgggtatggg aggacctctg
73441 cctggcctct ttgggacgct ccatacctgg ccactctcat ggctactctt actgagtgtt
73501 ggttcaggtg gaatgctcca catagataac ccaatgaagg gacggaggtt tgggtgttga
73561 gaatgtaggt ctgagaccca agactcaaac agacagtaag ttagtgagga tagaggtcac
73621 tgcattccagt ttttaaagca ctttttgatt tgtttcctgt cttcaggtct ttaaattcaa
73681 agaaacagac atgacacaga ggggaacatg ggtaaaaagc aaaacagcag cgcctcctgt
73741 cagctgactg caatagcagc ccagcagcct gccaaccaac aggagctgct ccgctggggg
73801 cagatgggag catgcacagc ctaaggcatc aaatgtagcc tttccaaagg gcacactcac
73861 ctgggcacaa agatggaatt gtgaaggaaa ttctcaaaga ctttacggta ctcagcctcc
73921 tccttctcag cctgcttctc agcttcagtt ttagggcaag cgcagcatgg ccctttatca
73981 ccaccacaca cttctgtctt gggattttcc gtcacctcct ccacgtcgat ggtaccatcg

```

FIGURE 6DD

74041	gcgtactttc	tgatgggtat	tttgtctgct	tggggaagac	cagagatggg	aatgaaagcc
74101	atgcaggaag	tgccctgttag	cattgctggg	ggaggggagg	ggtgctggg	tgactgctg
74161	agaagcaagc	cctgcaacgt	gacaggtgtg	accctggggc	tcaggttctc	tcagacaaca
74221	gacaaggcca	gtggcactgc	ctgcctgctg	cctgccagcc	cccagctcac	ctttggagca
74281	gtagtgtgtc	cggtacaggt	aaccatcctg	gggctgccgc	tgccacctca	caatgtagta
74341	actcaagtta	ccattgggca	gagttggagg	attccacttc	acaatcagct	gagaggaaga
74401	gtttgatgct	gagaggacat	ctaggggaat	ggaagggact	ggaaagaaga	acaaagaaca
74461	tttcagagaa	tagaccggaa	tccgaggttg	aggttatcag	gggctcgatg	caaaccaaca
74521	ggaagctgca	ggcttgacct	gggcacagag	atagcaacgg	accaaccaga	gcatgagggtg
74581	aaccagagct	ttggaaagat	taccaactgg	gaggccagcc	ctctctcaga	gcacttgctc
74641	ttagataatc	tatgtgcaaa	cacacatggc	tcactgacct	gggactgaag	gggctacgag
74701	ggcatagctg	gggttaaagg	ggactctaaa	aaaaaaccta	gagttgattc	agttatgaca
74761	actgtcattc	tccggtgtgt	attaggaaat	ggcaaatg	acggcttagt	acttcacctg
74821	tgattgcaag	ttttaatctc	tgataaaaac	ttgataaaca	tgacagggag	ccaaaatgaa
74881	gagtgggagt	gggggatgga	cagtgtgtgg	ggtggttatg	tgcttgggtg	aaaggactgt
74941	gaaacaagga	gcagggactc	acagatcttg	taagcaagtc	atgattcagg	aaaggcagta
75001	cgcctgagcc	ctgattctat	gcaaagtcc	gttacaagca	aatgagttta	acaaaacgac
75061	ggaggcctac	atactactga	tgcccaggct	caaaagtaga	actaacttac	gtaaaaagga
75121	aaacatccca	ggaccactgc	tgtgtcctca	ccatagcaaa	agagatacca	cagccgaagc
75181	gcaccccatc	cccaacacac	acacatgcac	atggcaaaga	atgaggccca	ctgggttttg
75241	cagtttccaa	agtgaagag	acagaaccgt	ggttatgaca	cttaagaata	aggtccaacc
75301	aagctgtttt	tgaatctgaa	aggtgaaaac	aagcttgtag	cggtcagctc	tatgacaact
75361	tggcacaacc	tatctgacag	aaaaaaacct	caactgagag	gatggctcag	tatgatcagg
75421	ctgtaaggca	ggcctgcagg	gcactctctt	aactaatgg	tggtggagga	aatgcccagc
75481	tcattgtggt	gaggaggcct	ctgggctgg	ggctcctggg	tctctaagaa	agcaggctga
75541	gcaagccact	gggagcaagc	cagtgtctct	ccaaagtcc	tgtctctgct	ggagtttcta
75601	ccctggcttc	cttaacggca	gactgtgatc	ctgatgtgga	agtcaaatec	tttccttgcc
75661	aggtcatata	ccaccacacc	aacaggaagc	gaatggacag	agggtgttta	ggatgtatgc
75721	ggtgctcaag	gctctgagaa	ccactgaggg	acaacacgtt	ggaagaccaa	gactgatgca
75781	gagaagacaa	gcacttgatg	cctggtcccc	tgagcgtttt	caataagtat	ttccaaaaca
75841	gtttcttact	aggtatttca	atgacaagtt	tcccagatga	agcagaggga	catgatggac
75901	taagtacgtc	actatcggtc	ccaagcactt	ttgaggtcag	ggaccaaagt	cagtttttaa
75961	tatttaggaa	gaagaatagg	atttcttaag	aatctgctat	aatgataaga	aattcctgct
76021	tagttttttt	ttttttcttc	tcagatctgc	tgcaatgatt	cactgggagt	cattactccc
76081	aaactttaag	atgagaaatg	tattcagttg	ctttgctctt	ggaacgggtg	atatgtttca
76141	ttgtgttgta	agccactcaa	gtcgatggaa	ttttttgttg	taagaggtca	gtcattatct
76201	ttacagtga	gcatatcttt	ctacctctct	cgtcttttga	tacaaactca	cacctttgct
76261	tttccccact	tctagggtct	ggagctgggg	aactagtacg	taaacacatg	aagaagatga
76321	gaagggatta	gtcaataatc	cgatatcata	gtactctaag	cctgcgttcg	cctggtgaga
76381	aagctgggtg	ctacggaata	aaggtggaaa	gccagcaagc	cactagaggc	aaggggtgca

FIGURE 6EE

76441	ccgggtcattg	tcgtctcagt	ccctggaagt	ctgcactgag	agagaggaga	ccagccacaa
76501	gtggctacat	cctgggcatt	cagagaaacc	atcctactgc	tctggaggac	accgattcaa
76561	ttgcgtagag	cagagatggt	gacattttaag	atggtaccaa	gtctaggaaa	tgggtcagga
76621	gaacttaagg	tgttggcagt	gagaatgtta	atacagtgtt	aagcagcaac	aacaagcatc
76681	tcattgctag	ccctccagcc	atactgtgcc	tatgtaaata	aagcaagctt	ataaaaattc
76741	agggaacagg	ggttggaggt	tgttccctccg	gtgcgtggat	acctgaagca	ttggtgcgaa
76801	tgtacaagat	ttcacttttg	gccccacgga	tatggtcgtt	ttccaccatg	gtgagggtca
76861	cagccttgac	atagacagca	tactgggtcc	agggcttcag	cccatgcagt	aaaatgccag
76921	gctcgccctc	cttggttcgga	ggcagggtcta	catccaccat	gttccagctg	ttggagccac
76981	aggcatcctg	cccgtcatat	tccgtaacgt	ttttaaatgg	tctgaaagac	agtcaacaca
77041	ggccagagaa	cgttgaaggg	ctctggcatc	aaaactcccc	agaaccttcc	ccaggggctg
77101	aacgtgtcac	actttctatt	tctattggga	actccaaata	aaactcatca	tcaattagat
77161	ttctatacaa	aaataaaatc	aagcatctgg	actcgggagc	tcgacagcta	tgaaccgcag
77221	aactgacaag	cagccttaga	gacagcaagt	ccctcattca	cagggaactga	aaatgctgcg
77281	tctaagacat	gcggatgctc	attgtcttct	taagtgaag	ttaaaaacaa	caacaacac
77341	atcaacaaaa	acccaactaa	tgaaaaaaaaa	aaaaacaaaa	aacaagcaga	gctgtttaat
77401	gcaaacaata	aactaataaa	acacaacttt	tggacaaaaac	taactttcct	atccccctag
77461	aactctaaaa	tgtaatcga	taatagccat	ttttatttat	ttttattttt	acttttttgg
77521	tttttcgaga	caaggtttct	ctgtgaagcc	ctggctgtcc	tggaaactcac	tctgtagacc
77581	aggctgacct	cgaactgcct	cccaagtgc	gggatcaaag	atgtgcacca	ccactgcctg
77641	gctcataata	gctatttttt	ttaaacaatt	tttttagtag	atattttctt	catttacatt
77701	tcaaagtcta	tccctgaaagt	ctcctatacc	ctccccccgc	cctgctcccc	aaccaccca
77761	ctcccacttc	ctagccctgg	cattccccctg	tactggggca	tataatcttc	acaagaccaa
77821	gggcctctcc	tcccaacgat	ggccgactag	gccatccttt	gctacatatg	cagctagaaa
77881	cacgagctca	gggggtattg	gttagttcat	attgctgttc	ctcctatagg	gttgagacc
77941	ccttcagctc	cttgatact	ttctctagct	cctccattgg	gggccctgtg	ttccatccaa
78001	tagatgaatg	tgagcattca	cttctgtatt	tgccaggcac	tggcatagcc	tcacaagaga
78061	cagctatatc	tgggtcatgt	cagcaaaatc	ttgctgggtg	atgcaatagt	gtctgcgttt
78121	ggtggctgag	ataatagcta	ttttcgatgc	ttaactatct	cataatattc	caacactttg
78181	tttcctgatt	gtctcagaga	gtggcattgg	tgataccacc	agttagcatc	gccagtgcac
78241	tggcagcact	ttcaaaggga	agggagggtc	ctgcacagat	gcatggtagg	cgggggtgtc
78301	actttgacga	gatgcaaggg	ctgctagcta	ctggcttctg	aaattatgct	gacatgactt
78361	gtgttcgatc	acgatgggag	aggggtggcc	cccattttaca	caaacactga	gtgattttga
78421	gctttctatt	ttccctgggc	tataacagtt	cccaggacc	taggtcaagt	ggcagcgaag
78481	ataccaggca	ctgccaccag	cacctttgct	tctggaaaga	tcagtgcctg	ggaaaacgga
78541	tgaccacaca	gactggggaa	accacctggc	cacaggaggc	tgagtaggaa	aatgggacag
78601	ctcaggaagc	tgtgatgtgg	agtaagcagg	atggctctat	caggaaactgc	tgacacctag
78661	gttcgtccct	cactattctt	taatgctaga	gggctcatgg	cccagagcaa	agtcttgga
78721	aggccatgca	tgcatacaagt	gactggaaga	caatgggtca	gttcagggtga	gccttggtga
78781	gaacagagca	ccccatgggg	tattttgggg	gacagaggct	aagacaatat	ttaaccaagt

FIGURE 6FF

78841	ccacataatg	gcttatgaca	gtttggaggc	attcagttct	cttaaaattc	atcccccttc
78901	cccttggggg	gaacttactc	aaacaccata	taaacaatga	aagggctgag	gcgggacact
78961	ctcctgacta	gctgctgtct	caggttggga	cagtttaata	tgacaactag	agaggtcaca
79021	tgaggatgag	gtgacggctg	cctgacttga	ttctttatag	gtacaccaa	gactctctat
79081	tcagccaagt	cacactgcca	cctggcgcgc	cccaccctca	agcttgacat	cagagtgaga
79141	ggcccaaact	cacgcctcct	tgtagtaaac	tgtgaagctg	atgagatccc	ggtagtccgg
79201	cggccgggtac	cgggtgccacg	ttatgatgat	tccgttcttc	caggtcgtgg	tggaggtgaa
79261	acggagaaca	tcactttcac	ctggggcaca	gaggcacatc	catgagtgc	agaaacccat
79321	ccgtctctgt	gatgtcactc	tgagagaaaa	ccctgactgt	gcttccaaag	gcaaattctat
79381	ggctggcgca	ctcatgacct	gtcaggtcag	gctggctgcc	cctaagggag	aagccctttg
79441	aaatgctccg	atcacaggct	tctgctatgt	tcttgatggg	gaacagggtc	gggggctctg
79501	cagaaagggtg	aggggtgctgg	ctgtgtacac	acttaccacc	tctgcctaac	tactcttctc
79561	aagatgcctc	ctggatccgt	agagtatcag	ataaatctgg	atactcaaaa	gacaaggcta
79621	gcccctcccc	cacatgtatg	cacacgtctg	actagctgtt	ggtcacacag	ctcctgattc
79681	cccactaatg	ctatataatg	acggagggtc	aaatagagct	ttagtatttc	tgtttggttg
79741	tttttggttc	cttaaaacag	ggtttttagat	gtagcccaag	ctggcttcaa	actcacaatc
79801	ctcctgcctc	agcctgttaa	gtgggtgagat	tataggagtg	taccatcatg	cctagctcca
79861	tacagtgccta	gaggagagac	tgacatccag	gtctgggacc	acatttggag	aggggctggg
79921	ttaacagggtt	gaactctagg	ctatgagatc	ttagggtgaa	aactctcatc	accaggatgg
79981	aattattact	ttgtccaaca	tgtgaaaagc	attccgattc	aaagacatgg	gctcactttg
80041	ttctagaagg	agcagggcag	agaaaggagg	ccaagtgtga	ggacaaggac	actggacgtc
80101	cacggaagta	ttatagtggg	gcattctacc	tgatccttct	atggcacagg	agagaaaggc
80161	agagctgacc	tggagtggac	tggctcttcg	gtaaatattg	tttgctcata	ttgaaaaggt
80221	atttaactgt	gcaagctcta	agaacctgct	tggatgttta	atagactcaa	atggaccctt
80281	agaaaaatat	atcagtatga	gtgtatcagg	caccgcacca	ctaatatgca	gaggccaggc
80341	actggctgca	gtgggtttgac	agtccatggt	gaaacaaaga	gcccgcacc	ggatgccaaa
80401	gactgttatc	tggactgtgg	cagtcccagg	ggcttgagat	gctgtcactc	acaggaagct
80461	cgctctccgt	tgttcctggg	gtttatgtcc	cctttgctct	ggcgtccctt	ggttccgggtc
80521	acttcctcca	tgcggtaaat	ttcggagaca	cacagcttgg	gattgaaagc	aaagtacatc
80581	tttccggacc	tgacgggtcag	gttcgggtgg	ttccagtcct	acagctgctg	caagttctgg
80641	ttgtctagga	catagaagga	gtagtctctg	gaagcacaga	aatgcgcatt	agcaacgcac
80701	tgagcccaca	gccccctcag	gcgacagaga	gcctctctgc	ggccagtgtg	gttccatacc
80761	aacaaggggt	ttgcttgctt	actggggctt	tataacagca	gacagtggcg	gtagccactg
80821	gcaaaaagat	gtgccaagga	caatgttttg	aaatcgactg	gacactaatt	aatttcatga
80881	cctctattac	caacacacaa	agcttctccc	accaaaggat	gttccttgat	tcattccctg
80941	ggaaaatgcc	tttggttatt	tctctcagag	ccaggatatg	acaatgtgct	tgaatcagc
81001	ctacaggcga	acagacatgc	tccgctactc	aaccggaaca	gcttacatac	tagcagcaaa
81061	ggctgccatt	atccctagga	ataaatccta	cccatgccca	atcagcagtg	catgatggga
81121	tgggagacag	cctggctctc	tgtacatttg	cctctcgtcg	caagaagcct	tcatttcagt
81181	ccctgagtac	gtgggagagg	acagacatcc	agtgtctccc	tgggctctca	catcagggtg

FIGURE 6GG

81241	gctagatgca	gcgtgtaaca	tggtggcttt	ccacatttag	tatgtacaca	gcttggtctc
81301	agtatccct	accgctagag	cttctgggtg	agagggtccag	agtgcaccag	gaatctcgat
81361	gtctagcagg	taatgctgat	aaacaccagt	cctgggtcca	cccagaaact	accaggccgg
81421	ccacggcact	gtttccaagg	cctaacttcc	actagagggg	agatatgggc	atggccaaag
81481	ggaagatagc	tatcttaggg	ggccaagggg	agagcaagga	ttctacttgg	gtgtctgcat
81541	aagttttttt	ttttttttta	aacagttatt	tctaaatcca	cccacagacc	agacaaacat
81601	gtcccaaagt	cctgttctgc	cctaaaggct	gtgtccacct	aggcaccacc	tgctgagagt
81661	cctcaccac	attagaacta	ctgcctaggg	gggtctgctt	caacatgacc	ttcacatact
81721	gagaaatgag	ttacagctgc	aggggtgcca	agcctctccc	gacacttcct	ggagaactca
81781	ttagggagct	cagaggccag	gacccaggac	cggagagacc	atgaattccc	cacaggacaa
81841	gccacaggca	gtttcctcgg	tgctatgaag	agcagcggtc	atgtgcgtag	gtgaagtctg
81901	aggtctcgtt	ggttttaaga	ttccttatga	gagccagtga	gatggctcat	gcgtgcaaga
81961	gtacttacat	cacaagtctg	gtgatcagga	ccccgagaag	gaagaacagt	tactgtgtaa
82021	ggctgtcctc	tgacctctgc	acatacatcc	ctctcatagg	taagagtcc	catatggagg
82081	agtcggagct	caagtgtgag	ctaagcagtt	gaatggaagc	ccaaccctc	cttgagcact
82141	tctgcgcagg	cttcagcgca	gggtctgcac	acgcacgggc	tcaatgagcc	gctagccttt
82201	ggtaaggagt	gttcccctac	catgcttggt	tattggagta	ggaaacaaag	accctgatca
82261	aaggaatcca	gatcgtagta	cctaagagtg	tatgtcctag	ggaggtcctt	ggatacctgt
82321	cagtcagAAC	tgccacctac	gggacccacc	aatgttccct	cttattgata	tggtgggtgg
82381	caggataggc	agacaactga	aggataggtg	taatgggtgga	aagattgggt	cccattaggt
82441	gtcttgccca	accatgggccc	attctttaa	tgctgcctca	acgctaacct	caccggtctg
82501	gctgctccca	agtcttgaga	gtcccaggag	acaaaaatct	cctgttattg	aagacacctc
82561	caggccggat	acaagggccca	actaatcagg	tcaaactccc	atctccatct	aggccaaggc
82621	ctcttagtaa	actaatttct	caagcaggaa	acagaattgt	actgaaaata	ccttccttct
82681	gagccacaca	ttcttctccc	caggaggga	gcatgaatta	gaaaccagga	atttgacaaa
82741	tgaatggcag	gcacatagaa	actcagggtg	tttgactaat	cactttgaaa	agcaagatta
82801	tctttttcaca	gtaaacacaa	actttctctc	tttaaacaat	gcagagaagg	ctgggagcca
82861	gaataccaat	atcaataaaa	tccaggcatt	gtggagccta	cagaaggtaa	agaaaaataa
82921	aaaccttcac	caaaaataata	atcaacctgc	tggtggagggc	ccgtccacac	agtgcctgct
82981	tcccaacccc	cacccgaggc	ctgcctcctc	aacaccttct	gcaatagtga	gagttaagag
83041	atatccccag	gtggagattt	gtctacacac	cttcaagata	ctaattgtcct	tgaatggtca
83101	ttgttttctc	aggagatga	ctagttaaag	gaaccactca	ataaatgcga	cttcataaat
83161	cgttttctaag	ctcactgcct	ttttacatcc	acagaatatt	tttaaaaacc	aaactgttca
83221	ttttttttcc	tttggctcct	acacgctgta	tgatctcccg	gagttttatt	gagtgggtatt
83281	ttggctctta	gttcgatcct	tccttctttc	ctaccttcc	ttctgcaccc	ccccacccc
83341	ctcaagacag	ggtttctctg	tgtagccctg	gctgtcctgg	aacttactct	gtagaccagg
83401	ctggcctaga	actcagaaat	ccacctgcct	ctgcctccca	agtgtctggga	ctaaagaaat
83461	gtgccaccac	tgcttggtag	cttgtagctt	tttcaacatt	agaaaaaaa	atccccctcta
83521	ttggatgggt	ttcacctgcc	aatgcataga	cctactagga	tggttagtca	acaatttggg
83581	ggccctgtca	catgataagc	tcacagccaa	cacttagcta	tgatctgtgg	ctaccatttc

FIGURE 6HH

83641	taggcctccc	ttttaagtga	agactgcagg	ggaccgagtg	tagagtcttc	catgtaggaa
83701	ctgataacca	ggcccaagca	ccttctccac	tgcttatgaa	gtggcacctg	aatgggtttac
83761	tcagcttctc	tagggctgct	ggttctcagc	tgcccatgga	gctatctttt	ctgggtctctt
83821	cgggccccga	ggccaattga	gaagaactgg	atgctaaata	taaaaggacg	ttataagctt
83881	tgaatcacct	cacaaaggca	caggatgacc	tgtgctactc	tctgaactgt	caaaagtccc
83941	ccagaacaaa	gtcacagaaa	ataggtaagt	cctgcacctt	gatacaggca	gggctgagct
84001	caaggtctcc	agcctacaca	ggaccctctt	ttcaagctct	tactggcatc	ctggaagcac
84061	agacaaccaa	taactcatat	ccattttttg	aaggagacac	tactactgcc	tgtgacagct
84121	gtctctagag	ggcatcagaa	gccagtacac	tgaagctgtc	accagtacag	tcatttataa
84181	cactacttag	cccattctgt	gaatattggt	tcacttcagg	tccacagtta	taccatctac
84241	aaaggctcag	ttagtatgga	aatatatacc	caggcaaaac	taaaccaagc	accacataga
84301	ttgacaaaat	aggccgtttg	ttcctgagtg	ctttttaaaa	acagctttgc	tgaggtagct
84361	tttaccttct	aaaattgttc	ccactataaa	tatacagctc	catgggcttc	aataaaattha
84421	tacagatggc	caatcatctt	tcaatcatcc	agattcagaa	catttatatc	aaactgaagc
84481	ccccccccc	attcttctcc	catccaaggc	atctcccctg	tctgttcacc	caggatgcta
84541	catgtacat	tggctagtat	cttactgtgt	gtttttgcgct	tatactgagg	aacccttaga
84601	ttatatctaa	cgcaccatth	tgagaaaata	ctatggaaaa	tgttgctaag	agcattcaca
84661	tgtgatattt	gcatacacat	gcttccatat	ctctaggaac	agcctagact	tgctaggcaa
84721	agtaactaat	tgtatgtatt	ttaaaagtc	caagtatgtg	ctaaaatgtg	gttatgttag
84781	ggtctagtth	cagagatgca	gggcacatta	caaaaccctg	agtctgcaaa	gggtagagat
84841	gcctaaacag	actaagaatt	ctaactttat	actggccccc	ttccagtatt	tttgttctgt
84901	tcaagacaa	aatctttggc	agcacctaag	agcttgaact	tttcatttat	ttgattgtct
84961	ccaaaccaa	gttgtccaaa	gcagagcatt	ttttttttca	gataatggaa	atattttctc
85021	tcttattcaa	ggagaaccac	atatccctat	ccccagacaa	aacttgattt	tccttcttaa
85081	tcccccccat	gacccccaca	ctttgctaga	gatcaggtag	caagcaccac	acactctagg
85141	ttaagtgtct	tatcactaca	ccacaccact	acttctgaga	aaaccctttc	ctttctgtgt
85201	ctgtccttga	gtacacagac	gtgcaggctt	ctggacacag	gagagagaca	ctgggcatcc
85261	tcctgttact	ctctacccca	ctgtcctgaa	acaggctgtc	tcacggagtc	tggtctcagg
85321	caggcaggtc	atctgactag	caagttcttg	ggatcagctt	gtctcagctc	accacctgga
85381	gctactcctg	ggtgcagcta	ggctcagtea	cgccgaggat	tcaaacacga	ggcctcatga
85441	ttgccaagca	agtacactta	gctagggagt	catctctcca	actcctatga	tcttatctga
85501	agttgggatt	ctacagctat	gccacactac	agagagagtg	atggctgaga	ccaaagggtc
85561	ctgctgctac	ccaagtaccg	ttctgtggct	gtgcaccctg	atgtctgctc	tgctgggatt
85621	ctgcttccac	tgtcgtcggc	ctggaaatca	gtgtacagaa	atgtggcctg	atgagcatgc
85681	atgaccagc	taagcaggcc	cagaaagaaa	acacaggaac	tacacgccag	gcaaaacact
85741	tgtgttccca	cgggggggcta	ccgagaaggc	caagatcaac	tgcatgtctt	tcctggatag
85801	ctaaggctga	aggatacctt	catgggggtg	gggggtgggg	tggggggaaa	tattctctct
85861	tccatcaaga	cagaagtctt	cagaatcctc	ctgagccgca	cgggaagcatt	tatgccattt
85921	tcagtagcca	tacaaaaagc	tcaagaaata	gattccttca	acactgagtt	gaggcaagat
85981	tgcttaaaaa	taaaataaaa	tataaaataa	aataaaaact	cagaagtggc	ctgggactat

FIGURE 6II

86041	atacatttga	aggatcacag	ggatagcgaa	gtcattttcta	atcttttgcca	tgtgccaaac
86101	atacacagaa	atactcagaa	agttactcga	gcttatgctg	gcaactcccc	caccccaagt
86161	tttctgtctg	acttgggggtg	aggtgaacct	ggtgaagtgc	cacaggggctc	ccctttccct
86221	gtaactgtga	tgtatccaca	cattctggga	aacactgggg	ggaggggggag	gaggctatca
86281	gtataaacga	cagcacccctg	aaattaaatg	tcagataact	ctgctaatac	acccctcctc
86341	aaaatctcca	gtgcgtccca	aggcttacct	aaatgataac	ctctacatct	gcatgcaaca
86401	gtgcctccta	taatcctagt	actgcctacc	tccccagga	gctgaacaca	agacaggccc
86461	aaatgtcatt	ctgtgctctc	tctctttctg	tccctgtgct	ttctagtccc	ccaaaccctt
86521	ccaggccagc	tttgctcaga	agcctgtgtg	gccttctcca	ccagagtctt	ccttttggtg
86581	cccagagcac	cttctgtcct	ctcctctggg	gctctctgaa	gcctgtgctt	tgcactacct
86641	gtgttcatt	gcttattaca	aatctttctc	tcctttatta	aataagttag	gaagaagtga
86701	accagctgag	ccctaatact	atacaacgag	agacaaaggt	gagttgttgc	tatgggtggc
86761	ccctcaaagc	tttggaatttc	atcacagtta	ccagagaaag	ctactactaa	agagtctcaa
86821	atgtcctggc	cagagatatc	cttgaagcaa	gaggctctca	acctgtgggt	ttagattcct
86881	ttgaggtcaa	atatcagaca	tccttcatat	catgcattta	cattacaatt	cataacagta
86941	gtaaaattac	agatatgacg	tagcaatgaa	tagattatgg	ttgggggtca	ccactacatg
87001	aggaactgta	ttaaaggggtg	gcagtactgg	aaggctgaga	aacactgttt	tttaacacaa
87061	gtctccaggc	ctcacctgcc	ctccactccc	ttctcaaagt	ctaacagcag	ggctggcgctc
87121	agctttccag	ggaagcttcc	ccaataccag	aatccttaac	aatacttggc	tgatatttat
87181	agtagccaga	agctggaaac	aacctagatg	tccctcaaca	gaggaatgga	tacagaaaat
87241	gtggtacatt	tacacaatgg	agtactactc	agctattaaa	aacaatgact	tcttgaaatt
87301	tgcaggcaaa	tggatggatc	tagaaaatat	catcctgagt	gaggtaactc	aagtcacaaa
87361	agaacagata	tggatggac	tcactgataa	gtgggtacta	ggcagaaagc	atggaatacc
87421	cacaatacaa	ctcatggacc	acatgaagct	caagaggaag	accaaagagt	ggatgcttca
87481	tcctacttag	aaggggagaac	aatataatca	aggggaagtag	aggggtggag	ggatttggga
87541	agaagaaaagg	agggggagggg	gaaaagaggg	tgcagagtca	ggatattgaag	gagctagagg
87601	agatgtacag	agggtcagga	aattgaacag	aggggatggg	gaactggagg	tagcaaccac
87661	aaagtcccag	atgcgaggaa	agcaagagcc	tcccaggacc	ccatggagat	gacattagct
87721	gaaataaccc	acaaagggga	aggagaacct	gtcaagacca	tatccagagg	ttagactgcc
87781	ccccaccccc	gttgaaggat	ggggcaaccc	acccatcttc	aaagttttta	ctcagaattg
87841	ctcctgtcta	aaggaaatac	agggacaaag	agtggagcag	agactgaagg	aaagtccatc
87901	cagagactgt	cctacctggg	gatccatctc	acacgcagac	accaaaccce	gacactatct
87961	attgctgatg	ccaagaagtg	cttgctgaca	ggagcctgat	acagctccct	cctgagaggc
88021	tctgccagat	cctgaccaat	acagatgaag	aggctggcag	ccaaatatca	gactaagcac
88081	agggacccca	atggagaagt	tagaggaaga	actgaaggag	ctgaaggggc	cttatctggc
88141	atcaatggga	ggggaggccc	ttggtcctgt	aaaggcttga	tgccctagt	tagaggaatg
88201	ctagggcagt	gaggtgggac	tgggtgggtg	ggggagcacc	cgcatagaag	cagggtaagg
88261	tgggatggga	tagaggggtt	gcagagggga	aaccaggaaa	aaggataaca	tttgaaatgt
88321	aaacaaataa	aatactcatt	taaaaaaaaa	aaagacttgg	ctgggtacttc	atacctaagt
88381	tttgaataat	gaaaaaatag	gctataaata	ttcttggaaa	taaaaaccag	ccttcaattt

FIGURE 6JJ

88441	tcagcaacat	ctaagtgtat	gataactttta	gttaaggcat	aatgataaga	taatcatacc
88501	atgtaataat	cctgataaga	aataatcaaa	gcctcctttt	gacttttctat	gcctatcgct
88561	tgctcagtgt	ggaaaaaagg	gggtgggggag	cttatcctcc	agtaactaac	agatctgaca
88621	gctactaatc	cgccaaggaa	aacgtgcttc	ccgatgtcag	ggagtatagg	gcacagatct
88681	actgggggga	cataatgaaa	cgagatggag	ttacagttca	ctttaaaatt	taatacaagc
88741	aacaatgaat	taaggggtgac	cacggcctca	tgtacgggag	gccccagaat	gattgcgaca
88801	ctctgggag	ggtacctggc	acatgcagaa	ggattcgcaa	ggagaaggag	gtttttctga
88861	agcttctctg	ctcgcaatgg	gaagatggac	ggggtgagca	gctctgtttc	tggctgtatg
88921	taccagggga	agaccaggc	cagagttggt	gtgagaaaaa	ctggagggtg	taaagaaacc
88981	tcattccagac	ataccagcct	ggggacaagc	cttctccgga	tcttcccgtc	actgtctttc
89041	taagggccct	gattgcttag	ttaatacacg	tataaaactt	caaagcatta	acacagagct
89101	acaccagagc	cgtagcaaat	gtctgaaggg	gccagcaagg	gcacacaggc	cagagtctgg
89161	aaagaagctg	tgtgcacatg	cagtaagcac	cagctttact	ctctgctgag	aaaccacagg
89221	ctgcttttaa	acccagcttg	caaagcattt	ctgtgcagaa	ggcacaacc	ctatcaatac
89281	tccaaatcct	gaaagctgat	caatacacag	acgctgtaag	ctaatacaatg	tacaagctct
89341	gcaagctgaa	atatctctgt	aataaaatga	actgtccgta	ctttgcaatt	ctttctgctt
89401	ctctgtttga	aaaggagatg	gcttgggtgt	cagggtgctca	agtgtctgct	gtacaagaga
89461	accacgtaa	catgtgcctg	aaatctcagc	acttagaaag	tggacacagg	gacatctctg
89521	aggcttgtca	gccagttagt	ctacaaactg	gtgagctcca	cgttcattga	gagacatact
89581	caaaagataa	gatagagaaa	aaagacaccc	tgtgtctcct	tgaacctcca	gaggggtgtgc
89641	acaaatatat	acatgcatac	aaatgcattc	tctctctctc	tcacacacac	acacacacac
89701	acacacacac	acacacacac	accccagagc	acagtaggct	gaggcagggt	aagtgtcaga
89761	tgaatcacaa	tttccctggg	agttaagcac	cacaggcagg	ctgctgtcac	tcctgcagga
89821	aaggttccct	gggaatacct	tggactgcta	gaactcagcg	ccctagctta	gactcgtgtg
89881	gtgggtttgga	tgagaaatgt	cacccatggg	gtcacacatt	tgaacgaacg	gccccaggag
89941	ttgggtgctac	ttggggaggc	tgtggaacct	ctgggagggtg	ctgccttgct	ggaggaagtg
90001	caccaggagt	gggctttggg	ggttcagggc	cttacctcat	ttcctgtctc	atgtttgcag
90061	tttgagatgt	gagctctaac	cttttgtctt	gcctgcttat	tgccatgcct	ctcccaccgt
90121	tacggatgct	ccccattata	agctcctcct	tccttaaggc	attttggtca	tgggtgtctca
90181	tcacggcaac	aaaaagtgtg	actactacga	tatgcaaccc	ttgatgactg	caccttaaga
90241	atgaagacac	ccatttgcca	aattgttagt	atcctgtgac	aactccacag	gacttagagc
90301	aggaagggtg	gtgaccacct	aggcagcagg	agcaggccca	gggtttcacc	ttcattctgc
90361	gtaacaaacc	caaggatatt	tgaaaagtac	actaatcggg	gctgggagct	ggctcagccc
90421	ctaaggggtaa	gggcagctgc	tgtcagggtg	ctacaacgag	tggagttgaa	ccccaggag
90481	ccacttgaca	aaaggagaga	ctgactccca	caagttgtat	tctgacacac	atacacacac
90541	acacacacac	acacacacac	acacacacac	acacacacaa	acactattaa	gacgcagcac
90601	gccacagttc	tgtgaaagga	gaatggagtg	tttacccttc	cagctgctcc	tctcctaaga
90661	tgagacgaag	gttcttcagg	aaggacaagg	agaccaaggc	atgagaatgg	cggatcttca
90721	cgtagccggt	caccacctcg	atgagcccca	tgaagttctc	caactccgag	gcaatgttat
90781	ctagagaaaag	aggagtccat	gtcaccgagt	cttctctctg	tcagggtggcg	cactatactc

FIGURE 6KK

90841	agattcacac	acactgggtgt	ggatgcgaag	gggaagcagg	tcttgcggtg	gggaattgca
90901	gtgagaaggc	tggcatagca	ccaaccgtcc	ctgtctccac	tctccgcaag	ccacaccggg
90961	acaaggcttc	tgaggcggga	aagcagactt	ctaggaggct	ggctgctgca	gttgccaagc
91021	tgattaacag	aacgtgaaat	cagaaatgcc	aggctgctaa	ttagccccag	ctgacaaatg
91081	gaggcaacat	ctcttagata	tgtcagtgta	caggcagtcc	tggctccaca	gtgccatggc
91141	aggactgggc	aaacctgtcc	cagcctggta	agaatgggtc	ttgctggacc	tggagttcca
91201	tatttaaaga	ctccatttag	ggctgcagga	aaacactcca	atatcacagc	aatgatgcat
91261	gcaggtagtt	gatctatctt	ccccaccct	ggatcgagac	agggtttcat	gtatgctaga
91321	cttaagatga	ggctgaactc	ctgatcttcc	tgtctctctc	ccctgatccc	tattcctggc
91381	ctgcaggcag	ttttgttttg	ttctctctct	ctctctctct	ctctctctct	ctctctctct
91441	ctctctctaa	ataattttctg	catctctaa	ttttctatcc	tgctcataat	tacttctgta
91501	accagaaagt	tgccaggaaa	agttgcta	gtaacaggac	cgagagccag	tgaatttctt
91561	ttatcgtgct	taccacctt	tcacatagca	agtaacataa	actttgggtc	atgacaaaat
91621	tctaagacta	taataaatta	ggtgaattgg	atttttatta	tatctgattc	ttgaagggtg
91681	atttgggtgaa	agtttctcct	atggtttgat	ataaagaaga	ggacaaaagc	cttatactaa
91741	gtctgagcct	cacagagtcc	cctcacttgc	aaaatacata	cagtgcctagt	tgtatgtaag
91801	ggctacaggg	aattcaacct	gaaaaaaaga	gtggctgctg	ctaagcctgt	gttttgttcc
91861	ccaagaattg	aatctataac	ccctgtgtgc	aagacaagtg	ctctggccgc	cctgaactca
91921	ctctgtagac	caggctagtc	tcgaattcag	agatctgcct	gcctctgcct	cagaagcact
91981	aggatgaaag	gtgtcttcac	tgtgtagacc	aggctagcct	cgagtccaga	gatctgcctg
92041	cctctgcctc	agaagcacta	ggatgaaagg	tgtcttcact	gtgtagacca	ggctagcctc
92101	gagttcagag	atctgcctgc	ctctgcctca	gaagcactag	gatgaaaggt	gtcttcactg
92161	tgtagaccag	gctagcctca	agttcagaga	tctgcctgcc	tctgcctcag	aagcactagg
92221	atgaaagggtg	tcttcactgt	ggagaccagg	ctagcctcaa	attcagagat	ctgcctgcct
92281	ctgcctcaga	agcactagga	tgaagttgt	ctgtcaccac	accagtaag	taattcttct
92341	tcattgggctg	aatttcccaa	tcacattgat	ctcccatgac	aggaagatat	aaaaacagta
92401	aggtttatga	attttaaaag	gcatgtcttg	ggatcaataa	actcaaagaa	aattaataga
92461	tctgggtatga	gcaaaactac	aatttgggtta	ttaacataag	ggtcagcgtt	cttgtgtggg
92521	gaacagggcc	ctccattgtg	gaagggtaga	gaatgggcaa	taaaaactaa	ggacttgggg
92581	gctcgagaga	tggctcagca	gttaagagca	ctgactgctc	ttccaaaggt	cctgagttca
92641	aatcacagca	actacatggt	ggctcacaac	tatccataat	gagatctgat	gccctattct
92701	ggggtgtctg	aagacagcta	cagtgcactt	acataataa	aatcaatcaa	tcaatcaatc
92761	aatcaatctt	aaagaaacaa	acaaacaaac	agacaaatgc	ccaagcctca	aaaactcact
92821	accacaaaaa	accccataaa	gaaaaaaaca	aacaaacaaa	aatccaaaaa	catacataca
92881	aaaagaaacc	ctaaaccaa	aaaaaaaaaa	aaaaaaaaaa	caaaaaaacc	caccttgttt
92941	ctattacctc	tacagactaa	gaatataatt	cacttattta	acaaataact	aggggcaagc
93001	aatccactat	aaataaagag	gacactttgt	ctctgaagta	aagaaaaact	ttctttccct
93061	aaagattttac	cagtaaagat	taaaataata	gtcttctgcc	tatagtattt	tacctcatga
93121	aactactagt	agctcaacct	agaagttcta	gtggcaggaa	ctgaagggca	tctatctagg
93181	ggactttctc	tgtcagtcca	agactagaga	agataagatt	acagggtctc	gtgccacca

FIGURE 6LL

93241	tgggagatgt	tgttcatgaa	tacaattctg	aagcaacatc	ccaggagcgc	tgtctacacc
93301	aagtgaagaa	agggagtctg	caggctcaga	ccacagcttg	aggtgtggat	ggcacatctt
93361	tctggctctg	agaggtaaaa	caggagatca	ctctttaatc	tttcctttgc	tcagtctcct
93421	caacggaggc	aagcaaccca	aactctggcc	ttacagaagt	gtggactctg	cagcagctag
93481	catgagccag	ccatgggtct	gagccatcag	aggtgtgtgt	gtgtgtgtgt	gagagagagt
93541	gtgagagggg	gagtgtgtgt	atgtgtgtgt	gtgtgagaga	gagtgtgaga	gtgtgtgtgt
93601	gtgtgagaga	gtgtgagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga
93661	gagagagaga	gagaacaggc	ctttcctgcg	taagatgtga	cttaaagaaa	gacgagggct
93721	gatcctcttt	acaggagtat	attctgggct	aatggctcaa	acatcgactg	tctttctatc
93781	tggattttat	gtttccgaga	aactcacagg	ggaggcgtca	cacaagaggc	ttacttacat
93841	cccgtgctgc	ttttctaagc	ctgtattctg	cttgtgacta	aagggacaga	gccaggaaga
93901	gcatcgacgc	aagtaaacca	agaagcggtc	cagccactgg	tctggtgggg	tggagtactt
93961	actgcctctc	cggatgttaa	taagcagatt	gcccttcagg	atggtgcac	cttggagcat
94021	ttgagcagaa	gtcaccgaat	cgatggtttt	cgttttcttc	tcttcacgc	cgcagacttt
94081	ggggcgaggg	ccttcgcagg	ggatacagta	catgctgggtg	aagataaaga	gtggacccaa
94141	accacaaaag	tgagtttatc	ttcttgcat	aaaacaaa	aaacaaaaag	aaaacaaaac
94201	agaaaagtaa	ggaggctttt	tgtttgttat	tacagcagca	tttcatgaaa	gaaccaggct
94261	gaaacatcca	aacaatcaca	cagtataatc	tcttaccag	ggcaagccat	ccaagctgca
94321	aacacacaga	gggaacacag	actgcagaag	aggaaagcat	gtcgcttggt	tttagacaga
94381	atacacttcc	catgcaagaa	gcatgtgggt	atcataggct	tgtggctggg	gagccagctg
94441	gtctacctgg	gagacacaga	ctcacaggca	ctctggggct	ctgaataaat	ggagctgctc
94501	actgatgaga	ccctcgcttg	cctgcatgcc	agaggagggt	gggcaagctg	gcagcgctgg
94561	ggaagggaca	gccgcatctt	tgtcactaac	aggagtctaa	ttcccaaagc	ccaggagagag
94621	attccaacag	gtacctggcg	cagtgcagg	ccattatttt	cttgctaaag	cacaagtga
94681	tttatatctt	gacagtgcct	tgcagaaact	tgtaaattga	tccaaatggt	gttttgctgc
94741	acatacaata	aaagccagga	acctccgcag	ctctctaata	aggtccttgt	ccgaatgcta
94801	ccctcagtgc	cacacacaac	ctggagccag	aagcagtggc	atgcttcctg	cttctgccc
94861	atcatttagg	aaacggcaga	gaagatgcta	agcctggggc	tataccttct	gagaccttag
94921	cctgtataca	gaataagggc	cgagaagctg	ggtcgatttc	tgaatgagaa	aaatgaccca
94981	atcttctgga	atgggtggga	cagtgttata	ttcaaattac	tgtctttaa	tgagtccgtg
95041	aaacctcacg	aaaagaaa	aaatcagggt	aaagcaagag	ctgcctttac	taaagtcttc
95101	catccgttcc	caaaatacta	tctatagtct	gttttggtta	aaaaccttaa	tagttctctg
95161	ttatcttcct	atttcctatt	aggagagtgg	ggctgaggtt	ttcacaggct	ccatgggaa
95221	gtggacctag	ctagccaaag	tgggggacat	ctggcttcct	ataataccac	atgcaacatg
95281	cttgtggtgt	tggaaacgaga	atggcccat	agactcatgc	atttgaaggc	tcagtcccta
95341	gctaacagaa	ctgcttggga	aggattagga	ggcgtctgg	gctgagctct	cagttatttc
95401	cttcactcca	ccatctggga	tcctgccctt	tgaaatcaca	agccaaatta	gacatacttc
95461	tgtatacgca	gctaaggtca	tgacatttta	tcacagcact	agagaagaaa	ctaagacagc
95521	tctcatttct	agcctggaga	gggttttct	tctgaacttt	ctttgtgctc	tgtttgtgtt
95581	tttctcattt	aactacatga	cgcataaaac	ccagctctct	ctaaaaacaa	acaaacaaac

FIGURE 6MM

95641	aaaaacatac	ttggaataac	tgcagcttca	tacacagacc	cgtgcagaca	gtacagagca
95701	cccgtgtact	ttccacccaa	cgctcccaac	tgctgctaca	tccaacataa	cgataacaca
95761	gtgacctggc	acgcgtgtca	ggttctgtgc	atctctccat	ctgtctacat	agacctgtaa
95821	attccctact	gcaatcgagt	tgcaggacaa	cttcaacaaa	gtcctcctgt	gtgttgccctg
95881	tttgtagctg	ccctctgacc	tgccccagac	ttcactatcc	ctaactcccg	gtaactgcca
95941	aggtgtcttc	tactgccacc	ttgggaaatg	ttacagaaag	gcagtcatat	agcacatggc
96001	ttctgaggct	gatgtgcttc	ccaatgtaca	acacccttga	agttaaacct	tcctttacct
96061	ctcctggtga	tgttctgtgg	ggaggcctgc	tttcctactt	attgtaccag	atatctgagt
96121	tgtcctcact	tcctggtatt	acaaacaaag	aggctacaga	caagtacatg	aaataaacgt
96181	tcagggtcaa	catgactatg	tttattcttt	ccccattttt	tttttatcca	aataggaaaa
96241	cctggagcca	cctcccgcct	tgtaaaaatg	tctaggaatc	atthagcaat	tgaaaacatg
96301	tctataaggg	tgtgttctga	ttatagctta	agtttcctaa	aaccctactt	tgtatagaca
96361	gagcaciaaac	agtatttttca	aaatactttc	aagcaagtgc	taaatagggt	tcaaaggcca
96421	gcagaggggac	agctatttatt	tcttgatagt	attttaattt	aaaatgggag	agactgtgag
96481	aacgggcagg	gagcagcagc	ccagtgcctt	aagagcacac	tggagggaag	gagacccaac
96541	tcctatgaag	acacagcatc	ctcactgtgt	gttacaggac	agttgaatgc	ctttcagtag
96601	ggagaggaaa	taaacttgca	ggtaaaatat	gatatagtga	gtttgatggc	cagctctccc
96661	tctttttttt	ttttaatttt	tattaggtat	tttcctcatt	tacattttcca	atgctatctc
96721	aaaagtcccc	catacccacc	ccccactcc	cctattcacc	cactccccct	ttttggccct
96781	ggcgttcccc	tgtactgggg	catataaagt	ttgcaagtcc	aatgggcctc	tctttccagt
96841	gatggccgac	taggccatct	tttgatacat	atgcagctag	agtcaagagc	tcgggggtac
96901	tggttagttc	ataatgttgt	tccacctata	gggttgcaag	ccccttaagc	tccttgggta
96961	ttttctctag	ctcctccatt	gggggcccctg	tgatccatcc	aacagctgac	tctgagcatc
97021	cacttctgtg	tttgctaggc	ccctggcata	gtctcacaag	agaccagctc	tcctctttac
97081	cagccagctc	tccttgctg	ctcccagccc	cagaagggaag	gcattgtctg	gactgtgggt
97141	aagcaacttc	acactgccag	acaaagggtct	ttggctcaag	atgtagaggg	gtacatacac
97201	cccttttcta	tgctaaaagt	gattattttag	atgtaaagg	cctctaaagg	cttatctagt
97261	aacagcttag	tcaacagctc	aacaaggtag	ggtttactag	aaggcctgtc	tgtccttggc
97321	acatgccaaa	agcaatggac	ccaagagcta	aaaccaacct	ccccctcct	cttcttcate
97381	ctcctcctcc	tcctcttcc	cttcttcata	aactgatcac	cctaagtatt	ttgttacagt
97441	aaccgagagt	tgactaacag	agactgcca	cacatgaata	aaaaaatggc	agacttattt
97501	ttagtagact	gtattataca	attctgagtc	attgtagtcc	ctggcttacc	aaatcattta
97561	aaaatatattg	atcttttcc	ttttactgtg	ataatgggtg	agaaattaaa	caggtaggaa
97621	tttacttttc	atcttagtat	tatgaaagaa	aatgtaatct	ttggtttgat	ccagcagtca
97681	gcttacagtt	agagacatct	ccaaatacta	tagcagcaat	ggaatttctt	tttgaagatg
97741	tactgaacat	cttttataga	gagtgactgt	agcaaaaacta	tacattttat	atacttacag
97801	aattgttagc	aatgctggag	actggaccta	ggctccttcta	tgtgccagag	attggatcta
97861	ggaccttcta	caagggtggg	actggatcca	gggcatctca	caagtgtggg	cagtattcag
97921	aacttcctag	ttgtattttc	agaggctcag	aaatgtgtat	gtgtgtacag	taccggaggc
97981	agggaatgaa	ttacaatgga	accttcccc	aaagtccctt	gctctgttca	ggggaggaaa

FIGURE 6NN

98041	caacaacctc	agacctctga	ctgtcctgtg	tttccagagt	tataaaatcc	tgtcttcacg
98101	aacatcaccc	atgacgagtt	tgtggaagta	cagcttggtc	agtcagaaac	agctctgctt
98161	ccacagtga	gcctcagagt	ccaggaagga	aaaccagagg	ccacaaagat	ggtggaaggc
98221	ttagagaaag	gaggttcttg	cagaaaacat	ggcagatcag	actactagtt	catgcccaga
98281	gcccaggctt	gcaatgagac	atgggagacc	tgtttccagg	cctcatgaat	gctggtgagg
98341	gttgtcttca	ctctctctca	gactgagagg	caaagctttc	actggcctag	agtagcaagc
98401	tgggaaggag	tatctgtagt	taaagtctcc	accgctcatg	cttcagcttt	gcaggtgcac
98461	ggggagcaag	gctcgggagc	acctggccag	caagctaatt	cttacgctct	agtgttagca
98521	aggcaccctc	aaagttaga	aataaaaaag	caagctgaaa	cagaccacc	actccaagat
98581	tcgcattaaa	acaagctcag	ccatcacctc	ctgacagacc	catctgggtg	aaccctggg
98641	aggtcctaca	cttaggggct	atgcagcaga	gaacctcct	gggcctaggg	acaagagccg
98701	ctgacctctg	ggtgctgttg	cggatgaagc	ctgagggaca	ctcctgcatg	cactcatcgt
98761	cgtggataac	gaagccatcc	gagtcactgc	tctcagcgtt	ggggatgttg	gcgcagaaat
98821	cgcgatccac	acagcgccag	ccctcgaacc	gttaggtgcc	aggcgggcag	gcaggcacac
98881	acacgccttt	gtagtagtag	tgtctgcagg	ccacgcaggt	tgtgtgtcgc	tccggtgtgt
98941	ggcagctgcc	caggcactcc	gggtggcagc	actcgttggt	ctcgggtgcag	gctcgcttcc
99001	cgcacacact	tgggcacact	gtgaggacag	agggagagag	ggtggtaagg	atgatgggct
99061	acacagcctc	ccctgggtca	tccgctgcc	ccaccagcgt	ggcgtaccgg	agactggcta
99121	gaaaagcaca	cctcctctga	aatctgcgta	gatcttaccg	tctgtgaatt	ccacttgggt
99181	aaagacacaa	cccaacccaa	gtccattctc	tccttttagac	tcctgggttg	ctatgggatg
99241	agccattaac	atttaacacc	catggactct	tcaaaatgca	gtggccacac	ccattaaaag
99301	ggagcccatg	gtactggtga	acagagagaa	atacagacaa	tatgggcctc	taggactata
99361	caaggcactg	tgtcctcag	ctctccttct	gtatgagaat	tccattctaa	gaccccgatg
99421	gatgcctgaa	ccacgcacag	aacactggcc	tgtgcacacc	cccttctccc	tcatgcatac
99481	aaagtgatga	agagaggagg	cataacaagt	acggtgggtt	gaaggagaaa	tgtcctacac
99541	aggttcatgg	atgtgaacac	caggccgggtg	gtgggtgggt	gtttgggaag	gttacagagc
99601	ctttagcagg	gagctggagg	aagtcccttg	ctgggggtag	agtttggttg	gggttttaca
99661	gcctggccca	cttctctatt	tcctgtgtgt	gggtggaatg	cgatcacttt	gtgtttcctg
99721	cctgacaaga	ctaaagccat	tccttcccc	ctcccccccg	ccaccacaag	gactctgtcc
99781	cctctaggac	tgtacaccaa	gataaacctc	tatctctggc	tccatttttc	tgtcaaggta
99841	ttttatcaca	gcaacaggaa	agttccaaat	aaaacaggga	actagtcaaa	acctctaggt
99901	tactgcagca	aatgttaacc	atacccttta	caaaagcact	gcgtgactgt	ggcctctctc
99961	ttctcaaact	ccagaaaaag	aaatccaggc	tacggaggga	ctactctttg	ccatgggcac
100021	agaagtaatt	atggtctcta	aagaggaaca	agctacaatc	gaagtgccca	gtgcttatag
100081	aaggtctttg	gtaatgcccg	catctgcaac	gtctcttcac	aacacaacct	tcagatcaca
100141	agcaagctgc	tggacgggtac	aggatggtag	tacacagggt	ttctgtaccc	agggggccacc
100201	tgctataagc	cttgtaagt	taaaggccag	gtccagtaat	cacagatcta	aaatcacacc
100261	ctgaacagg	actctgctat	gcacttctgt	aaatatgtca	tgatgaacac	acgcctatga
100321	tccttacttg	tgaacaacat	ataaaaacaa	caaacaaaca	aacaaaacaa	caaactctggc
100381	taacagtaca	tgtaccat	tgggggaagg	gattgtttgg	aaatactaca	gaactacata

FIGURE 600

100441	aatatgtata	ttttaactgt	gatgtaccaa	agagtcaaga	ttccatgttt	tattaaaaaa
100501	aaaaaaaaact	actctaaaac	caaaactaag	ccaaataagc	cccagtaacc	acagggttaac
100561	ataaagaaca	cacaagttca	tctgcaccca	aaacagccgc	tttgtcaacc	cttcatgacg
100621	tggctctttcc	cgggttcttc	ctgtgcacag	gtgtatgact	acacatacct	gaatgttaaa
100681	ccttggacta	cggagaaaagc	actggataga	cttggagtg	ataccaccat	acagcaatct
100741	cgctacgtct	caccgttaca	gctgtgcccc	agcatcaaac	gcgcctcca	tgccccacaca
100801	ttactgttcc	atgagtacgg	ccatctttgt	gggcacctct	gcacgccact	gggatcagtt
100861	ttcagaactg	actgcacgga	gtcagtatgt	gctctggagc	cttacaccag	tctgtctaca
100921	cagctctaag	tcacatccaa	gaattcctgt	gtcactgccc	ttaaaaaacag	ttaaatacagc
100981	agcatgaccc	agtaaggaga	ccggagttct	cgtgacactg	ccaaatcgac	ataatcttgc
101041	atttgactct	aaagtcatcc	ctccacagaa	acatcggggc	atttccccctc	cctgggtatc
101101	tccccctgta	ggagtttttag	gtgttctgct	gggtatgctc	tttggctcca	aggcctccta
101161	gcctccactg	tggctagagc	gtggctgctc	tgtgtttgaa	gttcgttcat	cccattgggtc
101221	ataaaagcaaa	agtttttacta	gagcttccctg	gaacactcct	ttaaaaaatac	agtgtgtgtc
101281	tccttttttct	ttgctggctg	aaacatagaa	atgatgcaca	gatattcacg	cagccatctc
101341	agatggaaca	tgaggcaaca	tagtgagttc	aacttggcct	ctcaagatgg	ctgggtgtctc
101401	tagaccagtg	gttctcagcc	tgtgggtcgt	gatactcttg	aggggtgaca	tatcagacac
101461	catgggtatc	agatacgtac	attatgatctc	ataatagtac	caaagttata	attatgaagt
101521	agcaacaaaa	taattttatg	gttgggggtca	ccacaacata	aggaactgta	ttaaatagtc
101581	acagcatgaa	gaaggctgaa	accactgctc	tagactaaca	ctgcagctgc	tgacctttga
101641	acttcttctag	gtgaagagaa	accaactttt	atctatgcaa	ctgaaccatc	cacacagaag
101701	acctatcttc	agagccacac	acaagtgaag	acggaaaagcc	ttctcagctg	gtttatgacc
101761	ttcatattat	ataactagct	tcaggctggt	tttggacacc	cattctagct	caggaacaag
101821	cagaagttaa	ttatctctg	tcacacaaa	aaacaaaca	acaaacaaac	aaaaaacata
101881	aaacaacaac	aaaaacacca	aaaatcaaac	caaacaaca	aaaacctgca	ggagccccta
101941	atatcagaat	tcagacactg	tctaccacag	caattacctc	aaagacagta	aaatggagtt
102001	cactgattta	acagcctacc	atgttttttag	cttcacacac	taccactgat	tcttttttca
102061	ctcaaacaca	tcaatatatg	acacagttga	agatgatagt	ctgatgactt	aattaaacat
102121	atgcactgca	cgggttacat	caaggtttgg	ggctctaaatg	agcactgaag	ttattttgtg
102181	taattttttt	tttttttaaat	ctgtcaatga	cagaagtcaa	cgatctgttg	gcattttacgt
102241	acccacccag	aattttactgg	ataaacgctg	cacctgtgtg	ccaggcaact	ggacatcctg
102301	tacaattgta	cgggtggcagt	ccctgacctc	aaggaaaagga	taccacacca	gggaagcagg
102361	aaagaccacg	cacaggggtg	tcctagtact	gtgggttcc	ggaagggtct	tcagagacag
102421	tgagattggc	actgaaaaag	gaaggccgat	ggggaggggc	atcaggacca	cccgtcacag
102481	aggctctcag	atgtaaatac	aggctgagat	gttgctggaa	acaaaatgga	ccagctcagg
102541	gaggtagcac	aggcacaccg	attgacggac	agcaggaaat	cacctgtctt	taggcaagg
102601	ttaggttctc	acactagaaa	ggtcagcatg	ctgtatagcg	aaggcatgat	aaccagagtg
102661	ggcagaaggg	cagaagaaca	gccagaggag	aggaatctgc	tactgattac	actgtccatc
102721	tatggctcac	acagatacat	aaagttcaat	gtaactcgct	aaaggctccc	tgggtgcagct
102781	gtcccagcca	tccgccaaca	ccattgctct	gtgatctggt	agctcgacgt	tatcagcaga

FIGURE 6PP

102841	gattatcaat	gaggactaga	tgccaacttt	ggagcccttt	acttacttac	ataggaaaga
102901	aaatgataca	tcacaataga	tgatgaagtc	aaatagctac	atagtagtca	aagcccatac
102961	catataaaaag	caggggggaaa	taaccttgta	cactgtcttg	aatcagttac	ccccaaaatg
103021	caaatgctac	atctttccag	gatgagaaag	agaaatagaa	atccttgaca	aaggatttgc
103081	taaatttgag	acatgttgag	ccctgttcca	ggcctgtgat	gggaacttct	tctcaactaa
103141	gaaccataaa	gttaaaaaca	ctgtctttac	agatagaacg	gttcttttaa	ggcatatacc
103201	agatccatga	gtcccttaac	actcagtgt	gccaactgtg	aacaaatgcg	catctgatat
103261	tctgtgggtg	gaagaggaca	aaaaaggggt	atgcagagag	ggagagagaa	gatggaggaa
103321	ggccgacctg	cttgctaggg	gactgactct	agagatctgt	gtgtggctac	agggaggaaa
103381	gggggtgtggc	tctctctcca	gcacagagga	ttccaggagg	aagcaggaga	acgcagggct
103441	gggattagac	agtcctggag	ccagcttcag	aagcctgctg	ttaaattttgt	ctcatctcga
103501	tgtatataaaa	tattattagt	gttcaggact	attaagggat	ttcttgaaaa	gccccgggca
103561	gtgctgtctcg	ccagcagatg	gatggctgct	ctccatgagt	gccaaaactt	aaaatttagt
103621	gcagtaacca	aatttccaat	tacagcacca	tgggggggaaa	ggagggggacc	tccccgcaca
103681	ctccagagga	ggggcacaca	ggcatgggta	aagggcagtc	caaccttaaa	aagaggaaac
103741	ggaagctgtg	aactagggca	cgaaggaaag	caaattgatt	ttgcccataga	gaccgttcta
103801	ttccttgcca	ttaatcagcg	aagacaataa	aaacaaaacc	ttattgaaac	agtcagaaaa
103861	gctacaacat	gtcctgtgtc	agccatcaga	aggacaggtc	cagggtcagc	gtgcatacgg
103921	aggccacacg	ttttaaaact	cctcttcatt	tctttaagag	aggacaaaca	agcctcgcac
103981	atcagcttgg	tccttgcat	tagtaagttc	tttctaattt	ccctttagcc	cgtgattgct
104041	tctgtcagtg	aatcctttca	tgatcgaaaag	ctccgagaag	cgagcaagct	aaagcttccg
104101	agtccaacgt	gggaagaaga	agtaacgaga	ccgcagaaga	gaaggatgga	agcattagac
104161	aaggcagtg	aaaacactgg	tgggaacaca	gaggccagtg	aggggaagggg	gaggtaacag
104221	gtgctctggg	tgactgtcag	agcccatggg	gagtaagggt	ccgaacatcg	tattcaactg
104281	tagtccaaac	tctagaacag	agttaaaaag	ccatttgcta	tcagtccgta	agtctctctg
104341	gcaagaatct	tcatattatt	tgaaacacca	cacctaggat	ttccatgggc	ttccccagtt
104401	cgaaactaag	ccaacaagac	ctgtcttcag	gctctagtgg	cctacctcca	aaggaacctt
104461	tctcatttca	ttaaccaaac	caagcactct	atggaggagt	gtgtggataa	gccttgaaat
104521	agactcgtgg	ctaactcttg	gagcatcctg	cccagttact	aaacatgcag	aagcctcctc
104581	cgctcctgcc	ctcctcttct	ttttctttcc	tcctcctcct	cctgtttctc	ctgctcctgc
104641	tcctcctcct	gctcctgctc	ctcctcctcc	tcctgctcct	cctcctcctg	ctcctcctcc
104701	tcctgctgct	cctcctcctg	ctgctcctcc	tcctcctcct	cctcctcaat	ttggcccttt
104761	ccaaggcaag	aggacatgta	atactcaggg	ccgtcacatg	tatttgttta	taaagattta
104821	tacattctac	tttatgtgtg	tgtgtatgta	ccactttttac	gtctgggtacc	cagaggttag
104881	aagaggatgt	cagatttctg	ggaaactgga	gttacagatg	attgtgaaac	attatgtttg
104941	cgctgggaac	ctaacctggg	tcccctgtaa	gagcaacacg	tgtgaataac	cactgagcca
105001	cctccccggg	ttcctgataa	tgtacttgta	agactttcca	gacacaacca	tggtaggagg
105061	agcccaaggg	cagagtatca	ccaaggctgg	ccatgccttc	tgttttgtcc	tcagggttaac
105121	cagcaaggag	gatgctcatg	atgctcccat	gccttgctac	ctttcaggaa	aggcaaagat
105181	aggccaggga	actcaggact	cctcatagtt	tggatggaag	ttccagtttt	caaagaatga

FIGURE 6QQ

105241	gtatctctgt	tggcaggaac	tgtgcctgac	tgaggaggag	caggggacca	atggcaagaa
105301	caaggagaaa	aagcccagct	gggggtctgt	gctgtgtcca	ccttacaagc	atcacaatgc
105361	tttcagttta	ttagtcttca	atgtaccctt	ccactatctc	tcttcacata	cctttcccca
105421	ctccaatctc	ctcatataaa	ggtactacta	tgacttcact	gtacctctga	aacaaaaatt
105481	acatgttgca	atgtgactat	tgtcattatg	gtgtgggtgg	aagactaact	aaatctaacc
105541	aaaccaaadc	taatctatgt	tggaggtaag	gcctttggga	gagaattagg	attgtatggg
105601	gtcactaggg	tgggacatca	ttgtggtagt	agtgccttta	tcttatatat	agagagagac
105661	agagacagag	acagacagag	caagcaggca	agctcagcaa	gtcatgcctt	ggccatgcca
105721	taatgcaata	ggaatgccct	ccttagagac	tgacactaca	tccttggact	tctctgtctc
105781	cagaactatg	aaaaagtatt	ttctttataa	actaaccagc	atcaggtaag	ataagtatac
105841	ctcataagga	atagatgggt	agtgttgctt	cttggactca	gtcagtcact	gggttacatc
105901	ctagcaaaat	ctgtgggtca	actcaciaag	tcaaaactaaa	tagtgcttct	ccccccgccc
105961	ccccccccc	agggggaggg	atcgaggggt	ggagagtcag	agacagagta	agaatgagga
106021	gaaaggagaa	tgctttctcc	aaaagggaaga	caaggaccta	aaacataact	atgggtcttg
106081	caacgtcaaa	aggagaactc	tactgcctca	ctactgagca	agcatccaga	gtttaaaaca
106141	gtgtctaagc	atgtctgcct	ggaagactgt	agccactgca	tagtctgtca	cacagcaaac
106201	gcaacttcac	gtggcaaaac	gtgtcttaaa	agcccaggcc	gaaaaatcac	attggtaaaa
106261	gtattctctg	cctaattgca	aaaaccaaac	caaaccacac	cataccaaac	caatccgaac
106321	caaacgaaag	caatctcctt	ttgtggcggt	gcggtaggca	gatccagagg	agacgtcatt
106381	ttaagccaga	atccaaagct	atcttcagttt	ctggttgaaac	agaaaggctg	ttacagatgg
106441	agaacttcca	cagagaaaag	cggaccctga	gcagaacact	cctggagcac	agcaagctgg
106501	acagagagag	gacaggaccg	cgtgcttttt	tgacctgttg	gcacgctagt	catgagagct
106561	cctaactttt	ccagcagctg	atgctgtaag	tcattttctc	cttattgact	ttcaaaggat
106621	tttcaactgc	tctgggttag	cttgcttcct	aagaagagcc	ctgaacagtg	caccgcact
106681	tgggcagttt	cttgattctt	ggggagtata	ttaaagggcta	taagtcacat	attgttgctc
106741	ccctttggct	ttgccctttg	ctttccacac	cttgaaagtt	gcagggtctg	tctgcaggca
106801	gcatggtcca	gtcacagacg	gccagagtca	caggcaggtc	cccattctta	ttccaaatac
106861	atctgcaaaa	cccctagaca	gtcttccaag	cagcccaagg	gaagcccact	gtttgcaggc
106921	ggtgccccct	aatgcggaga	cagcactcat	ttggatctgg	ttcccagggt	gaccttccgg
106981	cagcattcac	tcctcagggc	tcctatgaag	tctggcacat	gcggggcaag	gctgctctct
107041	cccacatgct	tgcaacccta	ttctaacagc	acaggatcat	ttgaatcagt	gtggaatatg
107101	ctgagactga	aagatgtggg	ctgccacggc	tagggtaact	tgctcagact	cagatctcaa
107161	aagtaaggac	atgccacac	tctgcaggct	cattctgagc	ctctaatac	tgagatctcc
107221	caggtcagcc	tttccacaat	agctgtctga	gtctctctta	tataaatcca	atttatacca
107281	caaaggcaaa	atacaaggct	gcttattaat	acggagttaa	ctttcagtgt	tatttcccat
107341	atgcctgatg	acacttttag	tgtgttactt	atatgcatta	tttaatcctc	ctgataatca
107401	caaagggtag	gcacccctca	cttagagatg	gacaaactgg	agacatcgga	gagattaaag
107461	aactcatgca	agaggatcag	gctgctgtgc	cgttggttggg	tgctcacactc	agagtcccca
107521	acagatgaca	gcagcctctc	cacacatctt	cccacgtggg	tgtggacggc	ttctgagcct
107581	ctctgctgtc	tgaaaggcat	gctgcagggg	agttgcttgc	atgctagtgtt	tctttttaag

FIGURE 6RR

107641	catgcaacca	taaggaagaa	ataaaccaaa	agccctacta	cccttttcta	ctctcttgag
107701	gtatatccct	aaatctagag	gacaaaacaa	agtaacatac	acaccgaaga	gccccgcctc
107761	gtgcatacaa	gtgatactag	agaaataata	tgtatcaact	cagtgtcctc	tattgagttg
107821	tagccaatgg	aagtctcatg	gacatttttc	tgccacaaat	ttaaaagact	agattttttt
107881	tttttttcat	gagacagggt	ttctctgtat	agccttggtt	gttttggaac	tcgatccaca
107941	gaccaggctg	gccttgaact	tagggatcca	cctgcctcca	ttttcagagt	gttatgatta
108001	aagatgtgga	ccaccctgcc	tggccgccag	gctggatctt	gttggatatct	ctaagagcca
108061	ctgcaaagtt	gcacactaac	agagaagctt	ctcttctgaa	agatgcacag	tcaacatggc
108121	ttacctgata	ggaaatgact	gtgacatcag	accaaccaga	ccaacaagac	ccaaaagact
108181	acaggctcct	cagagtcagc	tcggaccaaa	taagtcgact	gaatgcagta	agcatgctta
108241	ggttttcaaa	tgccctgaga	caatactctg	agagggtgatc	atagcatcct	tccaggaacc
108301	ttgctaggtc	acaactcatg	cctcactcaa	gagctgctcc	ttcccaagct	tgtaaaccce
108361	ctctaacagc	acagaggcat	tctcttttagc	aagccataca	gttctgtaag	atggaaactt
108421	tgtcgtggaa	gaaaatctga	gtcaggggcca	gttgagatgg	ctcagtgggt	agataaaaaca
108481	gctatccttc	tgatggcctg	tctgaccccc	acccccctca	ccctggaagt	cacatggagg
108541	agggacagaa	tcaattccta	ccaagtgttt	tctgactgcc	acatacatgc	tgtgggtgtag
108601	gtaggagtct	cctcccccaa	taatgtttct	aagttgggga	acagttcagt	gcgtcctcct
108661	tttgggagag	cacagtttga	aggctcggag	aaaataaccg	agtagcatcg	cacagtccag
108721	gacagaaggt	aagccacaga	gttcagctgc	tgaagcatct	gggaacattt	cattaatgag
108781	caaaagaaac	aatcgcctac	tgacaatgcc	tgtgggatca	ctgaggcctc	gggaaccaag
108841	cagtgtctggg	cagagtactg	agaaaacagg	aaaacaaaca	ctgcaaaagg	ggtaacaaag
108901	aagcctgcgg	agggaagtta	taaatagcaa	cattataact	agaaagctgc	gtggaaagag
108961	tgaggaccga	ggtgcagctg	acccaaagag	ggagagcagg	aaattttcaat	aaatgacaaa
109021	ggccggcaga	acagagaggg	ctctgcccac	ggtgggctaa	gagtttcctt	tcttcttctt
109081	gcacattttg	taatatcagc	tttacaacaa	cacacacaca	cacacacaca	cacacactta
109141	aaaaagcaga	aagtctggtg	gttttcagtg	tcttcgtaga	gttgtgcaaa	tactgccaca
109201	atcgacgtta	gaatattttc	atcatcccaa	agcaaaaagc	ccatacatag	caaagcttcc
109261	cccagctctg	gggaatgact	aatcttactc	gtctccactt	ctccactgaa	tcgcttgcca
109321	ggagcatttt	acttagtgga	atcaaacaaa	gggtgttctc	ctgtagccac	tgtcttccat
109381	ttaaaacaat	gctttcaata	ttcacccttg	gcatgggtgc	tactagtcct	tctggctttg
109441	ggctgtactg	attctcactg	tgggaaagcg	agcctttcta	ttaatgtgga	gtgataacat
109501	cgtaggtatt	gggagtagaa	atgctagaaa	cactgacaaa	ctcggaaggg	gtaaggatgt
109561	caaaggatgg	tggatgctga	ggtccaggca	agggtgctgag	aagggtctgt	ttgcatccca
109621	gactctgtat	ttttggctaa	ctctatccac	taacttgggc	cattctttga	tagacagggc
109681	tgtcacagtg	ggcataatct	gtagaggaat	tgtcacctac	agtgtggact	gtgtctcccc
109741	tctgctcagc	aagctacctg	tgccacttat	ggaaaaccaa	gtgcacacac	atgagcttga
109801	gctctgtaga	aatgcctgac	aaatggatgg	ctgaagctgc	aacactgaag	ctctgctaag
109861	atggggagag	agaaaaggaa	gggcaggaga	gagtcaatgg	aaaagatggg	gacgaagggt
109921	gcagctcaac	cttagagtcc	ttttaccagc	actatattgt	tctcacagac	tgtcttaatt
109981	cccgtgtact	tttaaatagt	cgaaaacgcg	attttcaacc	tatttttaaaa	cccacataca

FIGURE 6SS

```

110041 aatttgaaaa actgcaggca gattttaaca caggggagaa aacaaacaaa gagagctggc
110101 atgggggtca ggacagacag ggccctcaag ctgatggggc atggtcagca ggggagggca
110161 gcttcatggc tgcttcaagg atggagaatc tctgtctcac aaaagtcaca cactttgtcc
110221 tcaagagttc tgaaaaaagg aaaagaagca agaagtcctt gcagagggcc gactccccctg
110281 cagccgttct cagcaggctt gagcacataa agatcacttg tgactgcctg tcacagatgc
110341 tcaaatggac aggatgggga aaaaaaatac ccttcacaca cttaaaaatt actctaagtt
110401 attttaaate tggaaactgt tgtatatcc ttataagttt atgaaactca cacggtcgct
110461 ccatgactaa ctgaagcgga attgagagag tagtctctat ttataacttc tctgcttggtg
110521 cgtgcgtcca gccctatttc cattctcttg tactgtacgc agagttagt gaagccgtgt
110581 gggctctgaa atgctactta ctctctaaca aggcaggcct gtgttccata ggggcaaate
110641 agtgggagac ggggtgaggg gttgcaatga ccaagtgaag gccaggctca gaggggaggt
110701 ctcaagcacc catcattgct caggcagatc ttttgctgtt ggttttgttt gtttgcttta
110761 ttttatttat ttattttaaa gacagagttg ctttgtaaac cctggctgtc ctgggacttc
110821 ctctgtagac caggctagcc tcaaattcac agagatccat ttgcctctct gcctaccgag
110881 tgtttatacc acctccacce ggctagactg cacctctcta aacgggtgtt tgagcctgtt
110941 ttgggacaat cgcacacctg gtgatggctg agagatctgt tctgatgggt tgaattcatc
111001 aatacacaca ttcccaggte agtgccttaa atctgtgtgc ccgctcatgt cacctcttcc
111061 acttgatttt agtggaattg tgtcaccaaa ggggtgcaagg ctttaacagg tcatgcataa
111121 gcctctctcc atacacaaat gtttatgtga agataactga aatgactgac cagagtcacc
111181 catgggacaa ctagtactca gagcagagca catgaggcct aggattaagt tctgttacga
111241 aaagcaagac ggttcatgga gagagtaata aatgtgaaag atacacgcgc acatagacta
111301 cccatggaat tcggatggct acatgtacat ggacacgaat cccctattca cagctgctcc
111361 catcaactgt aagaacagct gctctaaggc tgccatagtc tagtttgga gaaaaaatc
111421 aaaaccaact cctggaatct tctctaaaac aatgctctgg tgactgtagt tgtctcgctt
111481 catgctgctc caagaggagg aactcccat gaaaaggagg aaaaggcagt ccacagtcca
111541 cgcttccttt ttgggaaaga tcagaagggg taacaggcac ctcacacctc aatcctgtga
111601 ctaattatga aggtggttta tttttactgc atagcctttt cttttccagt ttatatcacc
111661 tcttaatgtc tccagattca ttcttttcta gaatctttaa cttcattaca gccatctctt
111721 atgtccatgt atgaaataaa ttaccactaa aaacatccct gagaaacatg tctaaggcaa
111781 ctcaagtact gtatgcacac agtgaagttt acaggaacta ggaggactgt gacatcatta
111841 tagccccgac ctgaacagga tcaactgatg gactgaacct ccaggatgca cagctgcgtt
111901 taaatcagtc gcagttcttg aagaagcacg cacttttcta acacagcacg gatatcaaca
111961 gctgggtcaag tgaccttcag cctgctcttc tgaggccctt gcctctctgc tcaccacttc
112021 cttcatcctg ctgctctgct cctgtaactt ggctggaaac atgacttagg tattcccagg
112081 accatcctac tacatacttt tacttaccaa gtagcaatca ttaaaaaaaa aaaaaagct
112141 cagctagacc tttaaattat ctaggagggt agaaaagcat tgtccctgat aattgtacat
112201 cctgaaaaat actatcacta gcataaatac atggaatatt cataatcagc ctatctcact
112261 gttaaaaagt acctagaaaa gagaccatgc aactgttgag ataccatttc tagaatctct
112321 ctctttttct gagtgtgcat gtgcgcacac acagacttct gttggctttc attgtacttt
112381 gcttgaattt tgtgagcaga ggggtgga aaaggtacca acttggttaa aacgcacgc

```

FIGURE 6TT

112441	aagtgttgat	gccccatagt	gccaatagga	atccgagtat	tctggaaatg	atcacttctc
112501	agtttcaacc	aggttttttc	gttttgtttt	taaaaatgg	actgcccacc	gttaaaaaag
112561	tactgaagg	cattcaaagt	tcgagatgcc	acgctctttt	ttaaaacat	tttttaaaac
112621	gattaatagt	tgagcactta	ggtgggcagc	ggtggcatgc	acctacaatt	gcagcacttg
112681	ggaggcagag	gcaggtggat	ctatgtgagc	ttgaggccag	cctagtctac	agatcaagtt
112741	ccaggacaga	ggtacataga	gaaaaataaa	caaacacaaa	aataaaaacca	aaatcaaaac
112801	caccacaaca	acaactacaa	aattgggtcc	agactgggag	ccatcctagg	cacagtgggt
112861	agaacgcacg	ccagctgact	gaacagttcg	gatgaagatg	ccaacagaga	gaggccctt
112921	ctgttttttc	caattaatta	ggaactgtat	gtctgtaaat	ttttatttgg	tctttgaact
112981	attatctcct	gatctcagat	aatctgggtt	actctaaggt	gctgtccaaa	tcatcaagtg
113041	ttccttgatt	gctcagacct	atccattatc	acccttggat	gtaagagact	gaagcaatga
113101	gaagcatcct	ggacctctga	agacgagggg	gaacccaggg	tatcctttca	gacactgtgt
113161	acagggcacc	tgcatagtcc	tgtgatgtca	cctgacccca	cggggctggg	agcagggag
113221	gtcatacaga	gggagggaga	tacaggtagc	tttctgcttc	cttcccgttt	gaacctttag
113281	cccaggtctc	ccttcacac	ctccagacat	gttctggaat	accctctagg	ctgggtttct
113341	acgggttcacg	ggaattttca	ttggaagctg	aaggaattaa	caggtagatt	aactatctct
113401	ataaacctga	accccagtaa	gcagacagtg	ccagcccgtg	aagcatagat	gagtctggaa
113461	cttggaatgg	tgttcaagaa	tcactttatc	cgtgggtata	aaatggaagc	attcagaaat
113521	gggaaagggc	caaactgcac	tccgcctcct	acaacgggac	ctgtgacccc	acagaagttt
113581	ggcaatgtca	aggacacgcg	aagtttagtt	gctacacaaa	gggactggtg	cctatacagc
113641	gatgcctaag	atacaggacc	atattttcca	aatcaactta	aatgtgcagg	tgtgtgtgtg
113701	cacatgtagt	gcacgtggaa	gacaaaaggg	caatgcagta	tgctttccac	tattgtctct
113761	tgcctggtct	tgtgaagcag	gggctctcac	tgaagcagga	gcttactgac	tggccaagct
113821	ggtaaccagc	aggccttttc	tgtttcctaa	ggccacttag	tttttacacg	gatgccgggg
113881	atctgaactc	agcttctcac	acttgcagaa	ccatctctcc	attcctccaa	atcaactttt
113941	aagcagagaa	gccttaaatg	ctgcgaactc	ccaaactatc	agagtcttcc	tcttctaaga
114001	aagtatcccc	aggttttcca	aattctggac	tcagtctgaa	agcgagggtc	tgaaaaagcc
114061	agagtcatct	cttccactcg	ggggtgaggt	ggaggtgggg	gcaataagca	ctgtagcaac
114121	ttccttgaca	ttcatgtcaa	aggagctgct	gcctttcttc	agaccccaga	gtttcctcat
114181	ccagcaggag	gaggcaggga	ggtcagggtg	cagaagccgt	ggagcctgta	tcctagtctg
114241	cagcgtatgt	caaggtgtgc	tttgtcccga	tttagagaca	gagcgagcgt	tgaagtgaag
114301	aagggttaag	aggatggaac	aaacagaaca	tactttgcag	gcaatgacag	tgaccagggt
114361	aaaggcagaa	gctgtgtcga	actccctgta	atgggagcca	gacatgcaac	ttctgttatg
114421	caatgctttg	tgaaaagggg	aaggcttttg	gtggtctcca	ctctcccacg	ggggcctctc
114481	tcccacggcc	taggaacgca	ggagagagga	ggaatggcca	ccacaagtct	gggctgcatt
114541	cctctgttct	gcttctccat	ggggcctggg	agcgagcacc	tttgcaagag	aaaactcccc
114601	aagagctact	ggattctgga	gcaaaggcaa	ctcaggaact	atgaacccag	aggacggaca
114661	tcttcacttg	gcagatggag	aaagtgaagt	tcaagcaatc	taagcgagga	aggttgtagt
114721	gctcgctcac	tactggagg	ggggttgggg	ggagcttggt	caagcttcca	aggagtgaac
114781	acagggattg	ggacaccaga	aaagcagctt	ttcttcatct	ttgaaatcac	aagccctttg

FIGURE 6UU

114841	aacacacgaa	ccgcacacct	tccttaaaga	aatactgggg	atdddgaat	caatttaagc
114901	acctctaatt	tccaaccctg	aaacgtttta	ctacgtgcat	tctctaactg	cactcgtctc
114961	tcaccttgta	aacaagcaag	atcggttgga	tgagtgtccc	ctaattacgg	tttcccttgg
115021	gcccgtctat	ccgcattggc	agcacctgaa	ctttctcctg	cactgtatct	tcctaaattg
115081	acattctcag	cccacactgg	cacgctggcc	tggtgccatt	caacagcaca	aatgacacat
115141	cccaagcctg	atacttccgt	cctcctgccc	tctccacact	gcgtgtccgt	aatcctgccc
115201	tccacccact	ccccaacctt	ttgaaatttc	taaaccaccg	cagaggaagc	cctgtagggc
115261	tcttaataag	ctcagtcatg	ctcgaaatat	ccgttttacc	cacaggggat	tgttaggcagc
115321	aattccgacc	agagcacatc	tcggcacgag	atcatggcct	ccaaagccca	gcgttcagaa
115381	ctcctaagag	caccgctctc	atgcagtcct	actggaacac	ttgggaactt	caaacagttt
115441	gggggtggga	aaaaaacatc	ctctctgata	cttccacctt	ccacctacac	tgtgggttag
115501	gaaactcctt	cctgttgctg	tgggcacgga	gggtacatat	cgcaactctc	ctggctctag
115561	tgtttgtaga	acccacagga	actctgccac	cacctacaca	gaaagtccca	tgccagagac
115621	aacgacgcac	aaacatttta	tgtaagttta	gccacatgct	aagaaaatat	catcttgatc
115681	aggtattttt	ctagttctgt	ctcacgttca	agtctcaagg	cccacgtgga	ggggagcacg
115741	gaagtacact	ggttgcatat	cttctgcccc	actggaagat	gcttgggatt	tctgaagaaa
115801	ccacctgtaa	atcagtcctat	cccttaggta	atcgagaaa	agagtccatg	aatttgtgtt
115861	cattgatgtg	agtcctatag	gtgcttcccc	ttggacaagg	ataggtacca	agaacaccat
115921	cctgggctgg	ggagatggct	cagtaggttaa	agtgcctggg	gttccacaaa	catagggcct
115981	gcgtttgggt	tcctagcagc	caaataaagc	acaggacttg	gcaacaggac	cctgggatct
116041	ccctggctag	acgccctcgt	tgaaatagca	acctctgggt	tcagggagat	gttgtagtaa
116101	agataatagt	gataatcaag	gtggagatgg	ctagaggatg	atggtcgaca	cccaccgtca
116161	actgtggcct	tcacctgtgc	acatgcacac	acaggcagca	agtgcacccc	atatactaca
116221	cacacaggca	gaaagtgcac	cccatatact	acacatacag	gcagaaagcg	caccccatat
116281	actacacaca	taggcagcaa	gtgcacccca	tatactacac	acacaggcag	caagcgacc
116341	ccatatacta	cacacacagg	cagcaagcac	accccatata	ctacacacat	aggcagcaag
116401	cgcaccacac	tatacatata	cacagttttt	gaaaaaaaaa	aaaaagctca	aatcaattta
116461	taaaacatta	agttttaagt	tgggcccttaa	ctcactaata	ttatttgaga	ggatcatcag
116521	tgaaattaga	aacagaaaaga	atttaattgg	aacctgttga	tgtgtttcag	gttattcaat
116581	aacaaaaaca	atctgccagc	ccggtaacat	ggtcatttgc	tttgaatggg	attgcttcat
116641	tctgtggatc	cacattccct	gaggtgggce	ctgaatggct	aggctcatct	tctgggaaga
116701	gggacacaat	ggcacggggt	agcatttcct	tgcacattaa	tcatgccaaa	tatcattaaa
116761	aaacaaaaaa	aaacaaaaaa	ccaaaacctc	ccagcccggg	agccatgggt	gcagcagtta
116821	aagcaacaac	ttaagaacag	acgaggccca	tctgcatgcc	gctgtggcca	catttgaaaa
116881	ggcccaagga	atgtctgtct	gtctgtcttc	tctgcctaca	gttttcaaaa	ttggtttcgg
116941	ggagagttag	gttcatgtct	tgtgttagaa	acatattacc	gagcagctgt	ctggttacag
117001	aagaacacgg	gcttgggaga	agttcacagt	ccagccctgt	cagctgctgt	aagtcaaagg
117061	gactctgcct	cctcagagtt	ccaccggagg	cagatgacag	acaccacccc	gcactgttag
117121	cccatgaaca	cacgcagcaa	ggcacacagc	gacagcaagt	gtctcctgca	catcggcagt
117181	gctctgtcaa	tatcagctgc	tgtctccacg	taagtctctg	gactggattc	tcaccttggc

FIGURE 6VV

117241	tttgccaact	atgtaacagt	gcaactaact	ggtgcacagg	tatagaagag	atgaggaggc
117301	tcctaggacc	ttccgccacg	gcacgcttgg	aaaaggaacg	tgacgaagag	cttctagtta
117361	gttcccttca	tgtgctgaag	agctgcagat	ctggtttcat	ggaaggatgg	ttagatgaat
117421	aagaaagaaa	aagagaacta	aagaatgttt	tcaattttta	aaattatgtg	aaattgtgtg
117481	tgtgtgctg	tgtgtgtgtg	tgtgtgtatg	catgtgtgca	caggccaagg	tgtacacatg
117541	aagggcagag	gtgtgtgtga	gagtatgtgt	gtgtgtgtgt	gtgtgtgtgt	gtgcacaggc
117601	catggtatac	cagtgaagg	cagagggtaa	gtgtgggagt	cactttctct	agcctttacc
117661	tgctaagcct	cttactggcc	cgtaagggca	ggaatctgaa	gtacttaaac	ctcacttctg
117721	atcaaataaa	actttttata	acttttaaa	accgttttct	taatttcagt	actcttctca
117781	gacccttctg	tcctagagta	acctctgtgt	gatccacaat	agacctgggc	tcacccagaa
117841	ctccctgaag	gttcaatgg	gatggtgggt	tgggtttgtg	cagttctagg	aatgtacaga
117901	gacacaggct	gaccactgag	gtcatgtggg	gattaacact	tcacacagg	caggagctgt
117961	agctcagggg	cagtgtgctt	gcctagcatg	cttgcagccc	tggttccaac	ccccaggaac
118021	gctaaaacag	agaaaacacg	taaataacat	gtctgccagg	tagcaagcta	ttccaagaca
118081	aggaaggaga	cttctgtgtt	tcgaaaaatc	tgttttgaaa	cacaaagaga	gactgggact
118141	gtggctcagt	tagtgtagt	cttatctcta	tccgagaagt	cctgggttca	attcccagca
118201	ccgttttaaat	ggggcatgg	aatagaggcc	tctaattcca	gtccctggag	atagtggcag
118261	ggggactcca	agttcaaagt	tactcctggc	tatatagtga	agaatgcaag	gcagactaga
118321	ctgggctaca	tgagactctg	ttttaaaaag	ggaggaagaa	tccttccaat	acataacttt
118381	actcaacttt	gcttcagctt	acattataaa	cgctggtgtt	agcatagata	cagaagctct
118441	ttcctgtgtg	gtgatgaatc	attactcaca	accaaaccac	gtgaggaagc	agggcccctt
118501	aatattaatt	acgggattca	gacagaggta	gttagagaac	tgtataatgg	taacacccaa
118561	aaactgggtt	agtaccccaa	atactcaaaa	gaaacagaca	atgctaacct	gggagattag
118621	aaatgattct	gcaactagtt	cctgtgtgca	tgtgcagctg	gaggcccca	caagttggag
118681	gcttgggtgg	agactgagaa	agcatttgct	attcgttttc	taggtccaag	gcatttcttc
118741	caggatccat	gggctggact	agatggagca	agtgcaggct	taagaagcac	aggtactgtc
118801	cacacactcc	tgatcatcaa	gatggggagg	gtatccagct	tggtggctgg	tcactagaac
118861	atccagttct	ccttccattt	gtaccactac	tatctaggac	tcactgatct	tcagtcacag
118921	gaaaagggtca	tctatagcca	gtggccagag	atagcctttt	atgcttgctg	cacgacacag
118981	tcagggcagt	attccaggaa	tgacacagaca	gcctgctcag	cttctctcac	ttcccctctc
119041	atagcccaga	tcgaggaaga	tggaattcacc	catectgtca	acaaagactg	ccagaatctc
119101	ctgtagtgtg	aggtatacaa	ttgtgagttg	ctatttaggt	tatggaaggg	ctgtggcatg
119161	ccaacagata	atgtgtggct	acatggagggt	aggcatggga	aggggcaaat	acacacacac
119221	acatatgcac	acacacaaac	ggaacacata	catagacacg	cacacacaca	taaacacaaa
119281	catgcacaaa	ggctcacaca	cacacataca	cactcacaca	cataaacaca	aacacacacg
119341	tgctcacata	tacacacaca	tgcatgtaca	cacactcatg	catacacaaa	cacacataaa
119401	cacacacata	tataccctac	ttctgtacat	gtgtagtctt	gactcaggac	cttgggacct
119461	gctgctcatt	cagcatatgc	cgctttctgt	tctccacaga	catcctgcag	atgtcccagt
119521	gacctgcctg	ccgctgcct	tcctgtcttt	tgaggtgggtg	acaactcctg	ccaccccaac
119581	attttatgtc	acagcttctt	cttcagctga	cttgaaagct	ttattttgtt	caaggtctac

FIGURE 6WW

119641	cgagcaacca	agaaagaaga	gctagtgttt	cacgggtaca	gggtggagtg	ttctggggat
119701	aggtcagtca	tcgtttccct	tttagggaga	cttggatcgg	tggttaatgaa	ctactcacag
119761	gaactggcca	gaatcagagc	ccttgaatth	tatgcactgg	tccagggagg	tcctgagaga
119821	gtggatgcag	agtgcactgc	cttttttctg	cctttgcttg	gaatcccaga	ggagccagat
119881	tccaggaagg	aagtggggca	gggaggcagc	agggtataac	gaacaaacag	aaaaacaaaa
119941	caacaacaac	aacaacaaca	accaccctca	aacctgggtc	ggctcagcgg	gtaagagcac
120001	tgactgcttt	tctgaaagcc	ccaagtthca	atcccagcaa	ccacatgggtg	gcttacaacc
120061	acccataatg	agatccgatg	ccctcttctg	gtgcttctga	agtcagctac	agtgacttca
120121	gtataataat	aaataagtct	ctggggcaga	gcaagcagag	ttcctaaaa	tcaattccca
120181	acaaccacat	gaaggttcac	aaccatcagt	aaatccatcc	atccatccat	ccatccatcc
120241	atccatccat	ccatccatcc	atccatccat	cttccaaaa	aaaaaaaaag	ccaaaaccaa
120301	aggcatggcc	acagaaaaca	tgtgtgccta	ttgtatttag	taacaaggta	ccttcttcca
120361	tttgggctgt	gtgcggcttc	atggtagttt	accctgtgct	gcctgtgttc	atttccacag
120421	ggaccccagg	atggcaggaa	gacctgcagc	cttctcacct	tcagaaccag	agccaagaac
120481	acagagcaaa	tgatcatgaat	ggtcagagtc	acacagcctg	caggaggcaa	agctggaatt
120541	ctaagtggct	gagccttgag	gtctcaaagt	ttgtgaccaa	tacactgtgg	tggacctgcc
120601	ccggttccag	agtcactgga	aatatttctca	tagcaagcag	gaagatctca	gggacagcag
120661	acgtagttht	aaatgggcat	gtcttgctag	aaggcacagc	tgatgtgcct	tttccagtaa
120721	gcattacaag	aagcccattt	ccatggttga	aaaatgcaaa	ggattattct	gagccatccc
120781	gatgataaag	aggacaacaa	tttgccttta	aaaaaaaaat	ggaagctggg	cacagtagca
120841	ctcttctgta	gtctcagaac	ttaagatggc	tgaggaagag	gaggacttgg	gaagaggagt
120901	tcaaaggctg	gcaggggaaa	acacatcaag	accttgthtc	agatccacaa	cgtaagcaaa
120961	ccagaagggtg	gtggcaaacc	tggcgggcag	gcttaggaca	tctaaatact	caattatttc
121021	tacttcaaac	agtgtaatth	gtacaaactg	gtagagcaca	gaagcagaag	aacattaaac
121081	acaggattth	ataatggata	tgtgcacaca	catatacact	gttgaagagc	ttgtcgtctg
121141	aaagtttcta	tgaattaaat	atttgthcat	taactactcg	agthtacttg	caaggcatgc
121201	caggcgccaa	gggagagcac	agaagtgcac	aaggcctthc	acacaaagac	caggaaagga
121261	gatgtgcaca	tagataatga	gtaaggcaca	gacttatgtc	ataaagatgc	gtatcaggaa
121321	gccaagagca	ctgccagcca	agaccatggc	gtggaaaggc	atgtgtaaag	caggtgctcc
121381	cggcaggggtc	catgtatgca	tgagaatctg	ctggagtgat	gggtgggggtg	ggccccttag
121441	atccatgcat	ttcaagggaa	aactatcaat	tatcatctth	atttatthtat	tttatgcatg
121501	tgagtacact	gtcactcttc	agacacacta	gaagggggca	tcagattccc	actacaaatg
121561	gctgtgagcc	accatgtggt	tgttggaat	tgaactcagg	acctctggaa	gagcagtcag
121621	tgctthtaac	cactgagcca	tctctccagc	ctaattatca	tctthtactga	taactaaaa
121681	gcctthaaa	tttaacttag	taatactctg	ttthaaaagg	atataactaa	acacagccaa
121741	tctgtthtaa	acaacacagt	ttcttgagth	gactagaaga	tgctagthth	tcattctgth
121801	tctcttggtg	caagaagatt	tcaaactatc	tacaatccct	cattthaaat	taaaaaccaa
121861	ccaaccaacc	aaccaaccaa	cctccattgt	gagaggtgcc	atgccactgg	tacctgcctc
121921	ctgctcctcc	tattacaagg	aaggatggct	taatggcctt	gctgggctgg	gcttctctgac
121981	tgcctaacag	tgtggaaggc	tgcacaggca	gtggagggaa	aaaaccccca	aacctctgtc

FIGURE 6XX

```

122041 gtttgttaaa acaaacgagc attttcacat tcaactcatac tccctgaccc catagatcct
122101 gtgaattcta aaaaggacca tgcttgatga gaatgttttt taaacattaa cgccatacaag
122161 gtggagagcc agaagaaggg agccaagagt ggatggcgac cctcttctct tcatgcttag
122221 caatttcttg ttctactcct atgcttctga gcacccaac aggaaggctt cacagctcct
122281 gaaggtctga gctagaccag ggtacacatg aatatgctga ttatgtggtg ctcatgcaag
122341 gagaccccta aaagatgact tccccaccta agtccgaacc gccatgactc tgagataatt
122401 tacccaaagt tacatttctg tttcccaaag tattaacaag agtgtttggc tcttttaaaa
122461 agaagccttag tctttcaggg cttttttttt tttccctttt ttttttcatt ttcaacaaat
122521 tgcttctatc gtctgagatc tccattacgg aactgtttgt attgagtttt agtgaaggaa
122581 gaaaaaaaaa aaaaaaagaa aacagagcgg ctgggaagat tcaagtgtgc tggagactta
122641 acattaggat cgggcacacc ccaggcttca ggggttaagtt aaggagggtg cttgtgtcca
122701 gtgtgagagg tggggatggg gatagaggaa gcttctctcg aagacttgac cactccccct
122761 cttttgtgaa gcctggaccc ctgtcacagc gagtaccaga gtacagcact caccatgag
122821 cctcaattcc atgtgagcct attctttact ccacgttagt ctgcctcttt tgcaagcaca
122881 ctctgcaact ttcattttta aactgtgtgg tgtgctaacg agagttagca gctctctgag
122941 tgacctaggg aagttctttt ttccatgagc tgccctccagc aacagagaaa gggggcaata
123001 ctgttgcagg gtcacggcag ttgggaacac ttttctata gttccagaat tactggtctc
123061 ctacccaaac ctcagatcat cattaagaca tgctaattgt tagcgagaca ggttgggaagg
123121 atctttttct atataaaata ctgtgactg gggcgtggaa cccctgtcct attgggtgct
123181 gtggccatgc aaaaagaggg tcttccaaaa atttaggatt aagagggcat ggtgggagag
123241 gaacaacaaa ctttggaagc cttctcaatg tactgtagaa taaaagcca accaaggcaa
123301 ggaagggtgcc ttccaaccta gaaatccagc caccctctgc aacgagccca ggctgctgg
123361 agaccacgtg aggtggtagt gggtagcctt ggaacctaac ataccacttc tagtaccgcc
123421 cagctggcac ccaatcagga gcggcacagc attctctaag cccagggttg cacctgcaat
123481 catcttaagc atacaatggc attgatttcc acttaggggt tagaaataac actcagaaat
123541 tttacctatc tctgctgttt tgctgcaaaa tttcaaatac tctccaagaa acgcaaacac
123601 aacagaacac ggaggatgtg acacacaaat tctgcacaat ctactgcca atacctcgat
123661 gttataactc gtgtattaaa tggaatcaga atcctgagtc ccactgtcaa acttctctct
123721 cgtctagtcg gtatgtgtga ctgacagctg atgtcactga atgcttgatg tctgaaatgc
123781 ctaggattcc tttttctccc cccatccaaa tataacagct ccatttcata ctccctagaa
123841 tttcatttgt gactggtttag cacactatca gtgaggggaa acggggggctg caggaagctc
123901 accgtcctta cagatttctg ggaggagctt caagagtaag taagtgtgta agccttcata
123961 gctctaccaa acacatgcat aaaacctgat taaacacaga ggaagaacat aaatattctc
124021 agtcttctaa ggggcagatg aagtctgggt aagaaggact aaagaaaaag catagagtaa
124081 aattcgctcc cgcttttttaa taactcttta agataaggag agttgtttta tgttttcaaa
124141 ataggcagag agagagagag cgagctagag agagaaaagta tgtggatatag tttatgtgtg
124201 tatgtgatgt gatttatgtg tgtgtgagtg tgtgtatgtg gtatggttta tatgtgtgtg
124261 tgtgtgtgtg tgtgtagcac tgtgacagag tgtgtgcttg gcatgtgaaa tcccctgggt
124321 tcaatccttc cccttcagaa tgtttccttt ggaacaaacc aatacatctg gtgacgtga
124381 ccttttagtgc ccctcctcca ctcacctgtt tttctacagc aaaagtatct acaaaaagga

```

FIGURE 6YY

124441	agccgtgcct	caggaagtct	tcaccaaage	ttgaagagca	tggagagaag	aagtaagggt
124501	ccatcagatg	ccttgtgttg	aggtaagtcc	tccctcccaa	tcaaccacac	atgaatatcc
124561	tctgatgtca	gccccctctc	ctgagcatcc	tgtctctgag	accttggaag	taagacttct
124621	gtgtctggga	ccaaaactac	tggggctatt	ttggcagctg	agccctctgc	ctcctctgca
124681	gggaaaaaca	gtaggaacat	ttcaaataac	attcatattt	gagatatttt	ctggctctgc
124741	gtatttttct	acttcatagc	acgtgtaatt	gtcctccctg	ataaaagtgg	acctagcact
124801	gctattttta	aagttttgtg	ttctacactt	taaaaggata	cacaaagtcc	tagcaggaga
124861	acgtcaatta	ccaagtacaa	aaacaaaaca	aaacaaaaat	aggaaatcac	catttggtcca
124921	atgccacagc	aatgggtgtt	gaatgaggag	gggaagaaat	aatgaacagt	gtgttttagag
124981	agtcccgaga	tctgtctcaa	agtacttctt	aattagagat	aaaaataaag	atgttaagtg
125041	acgagaggac	cttgagagag	cagcattaac	caagtgtcac	aattaccta	gcatggggca
125101	tcaggtgccc	tggcaggctg	acgtactgac	tcttcacagc	aggaaagagc	acaggaggct
125161	gtgtgtgggg	ctgcaaggaa	tgacctccca	tgaagtacct	ggatcgagct	actgaagtgt
125221	gggaaaagtg	tcccggaaac	ggagaaatca	aggaggacag	gaatcagagc	tgggtgggca
125281	ccgctcctgg	atcaggaacc	acaaatggca	caagagaggt	caaagggcac	tgggaagaag
125341	gggcagatgg	tggcagtaca	gtgcaggctg	taccttcatt	gttcggacag	cttcacggg
125401	gtttttgtaag	atgctaatta	gaagatgtca	gacacctccc	acccccacgt	gtgcaaaact
125461	gaagcagaaa	tatttcatat	aaaacaaagt	gttttttttt	taagttccta	aggtaaataa
125521	aagcaactta	gtgacatatg	gaacacaatg	tccccgacag	tttgacaata	aggcaacact
125581	cttccttcgg	gaggagagaa	atctctactt	tgcgtaggga	cacatcaagg	atatgcttct
125641	ttggaaggtc	ttcaggctgg	cagagctggt	caccaatggg	gatggtgtgg	gggcgtttac
125701	gttctcacia	ttccccatct	atctcatggt	accctccagt	gcaacggaag	tggagggtac
125761	actgagtgtt	catgaagaga	aagccgttaa	cgagatgctc	aacgagaata	taaccatctg
125821	tcgcacttgt	cccgcattgc	ccatgccctt	ttcctagggt	gcaagcacgc	aagtgggtaca
125881	cagatacaca	cccaggcaaa	acatccatac	aaactaaaca	cacacacaca	cacccttttt
125941	gggtcccttg	gagtccttgt	ttatgggagc	agacatttgt	ctgtcttctg	tcacagatag
126001	catcctctga	gcttggaag	tttaacatga	gattgatccc	actctttcca	agggggagag
126061	ggagactaat	gtgtaagcag	acagctccca	gtatcacaag	ccttagtttc	ctcatctatc
126121	actatgtggt	ggtagtggag	gcagtaaaaa	gaccttgtca	agctttgact	agaacaacct
126181	gagattcttc	attctgggag	tagccttaaa	tgtaactata	ttcactggca	agaagaaca
126241	aactaaggcc	ccagggtgaat	gtaagaaggc	taccattttt	acttcgggtga	tgctgagtgt
126301	taaggcgtgt	atagcacaac	agaggagtac	tccaccgcaa	agggatgcac	tgtctctttg
126361	gagtcgaggt	gccccctcca	ggtaatgaga	cagaaaggag	tggatacagc	tgggtccaggt
126421	tcttggtctg	ctccgagagc	tatgctaagt	cctctgaatc	aatgggtatga	cacaagtttg
126481	ttctctgttg	agctggtgtc	ttacttcata	accagtgtct	atctctaact	cccagctca
126541	agaaatcctt	ctgcaggatt	ggagagatgg	ctcagcggat	aagagcactg	actgctctcc
126601	cacaggctct	gagttgaaat	ggctcaciaa	ccatccctaa	tgagatccga	tgccctcttc
126661	tggggtgtct	gaagacagct	acatgtactt	acataataa	aataaataca	tctttgggtt
126721	ggagcgaacg	gggctgggga	gagagacgaa	aaagtgtctg	aagatagcta	tagtgtactt
126781	atatagaaat	aaataaatta	aaaaaaaaa	aacccttctg	cacagccttc	tgaatagctg

FIGURE 6ZZ

126841	gggttttcagg	cttgagcccc	ctttagagac	aggcagcaga	gacacaaagg	cctgccccaac
126901	atgtgtagga	ttagatagcc	tgggtatggc	tgaagggaac	aggtactcag	gttggcccag
126961	gccaggagcc	agactctagt	atattatgca	aggttgccctc	ctaaattata	atgcacttca
127021	tttgcagaga	gtccaacact	agactcatgg	tgtctggtag	cccagagggt	aacaggctgt
127081	gttcttcaca	gggaacatct	gaggacagag	acggaccaag	agggctcttg	acgggtggctg
127141	gtggtaagga	ctaggagcgc	ttacggcgag	ctgcttggga	gaagcctttt	caggtggtta
127201	tctgagagaa	ggcacaggaa	gtcatgaaat	taggacctga	ggacttgtcc	aggataggcg
127261	cagtagtgag	aactgcatcc	ttgtgaagat	gggtttgacc	tctgctggag	gctacaatgc
127321	agctaaatgt	gtctttatct	taatgactcc	agaaacgcca	tgctgtgaaa	gaagcaggta
127381	ggtagaggga	ggtcaggaga	gcaaaccaac	ctcacgtgaa	gggtaactca	cagacttgct
127441	gttcaactttc	cagaacccaa	ccctcaaaag	aacatacttc	taggggtgtag	ctgggaacca
127501	ggaagcagcc	agctctgagc	tgctgcttgc	ttgctctctc	acacagtggg	aacaagcaat
127561	gctcatctct	tttcaaagca	ctccaagcaa	ataaacacct	gcagaggagc	tgatggagac
127621	agacttctct	tactgggggtg	agtctattaa	acagaaaagg	aggcataaaa	atgataaac
127681	cagaccgtca	gaacacagt	agtgcagaa	actgtcagca	gagagcgaac	tgcttccttc
127741	tcacgccgga	gggcaactgct	ggattaagca	taatacaagt	tatgtatgct	cgctgatgtt
127801	cctgagcggg	taagaaataa	ccagtgttca	ctagagtaaa	aagtgcagcg	gttctgaatg
127861	catgctggaa	agatctccag	caagggacag	tgcaggaaaa	cgggagcaga	agtctcagcc
127921	ctcgggtctgt	gtatcacctg	gtcacgcttt	ctcactgagg	gatattgggtc	ccggggcatg
127981	agaggagagg	ttcctgctac	ctagtgaactt	tctcaagact	gacttaccac	taacctgtct
128041	cctatagtgt	caggagcttg	agtctgaaac	agtcttcaact	aaattttttg	ctgtaactga
128101	aactggacta	agtaattaaa	aaggtttcaa	tattttaagct	cacatttaag	ttgggaatgg
128161	agggatgggt	tgatagtga	gagcactggc	tgctcttcca	gaggaccag	gtcatttcc
128221	tatcacacat	ggaggcttag	aagcatcttc	ttcaggagaa	gacctacagg	ggaactaata
128281	tccttttcta	gtgcacacat	ttaaaactga	ggcttagttt	aaaccctgtt	ttaccagggg
128341	caggggtgtc	tgtgcacaag	aaagacagac	agagttagt	tttagttcta	gacttctatt
128401	tgctcaccag	gaaaataaca	ttggtagact	ttacccaaaat	ctgcagcaaa	aactaaatga
128461	taaatgtact	ctcaaaacag	ggctcaatat	cccacagggtg	atcagggtca	acttttccag
128521	ggaccctggg	gtcagtgggt	tttataacttg	gaatgagaac	acagtaaagc	tgggactgcc
128581	aatattcctg	ctaggactct	ttattttctt	tatggcttcc	cctagcttat	ttagaagaca
128641	ggcttctgtc	cctcagggac	tggacttctc	aagagcagaa	cactgctgta	ggaaacagt
128701	tcttccaaga	gtcaagggaa	ggaggaatgc	caccactgag	aggagatggc	ttgctttcct
128761	ccctcaagaa	aagagtgagc	aaggctccat	ccacggcggtg	ttccaacacc	ttcccacata
128821	gctggaccca	gatgtcatag	gggacttgca	gaaaggaagt	ttcaacatca	gctagccttg
128881	gcagatgctc	ccaagtcgtt	caaaaataaa	actcggggcga	tgacggtaaa	gatgggatga
128941	cggcttaaga	tggagcaaga	ggctttcccc	gtggcggggc	tcagcttagt	gctatgcccc
129001	cttgccgtct	tggttcaggaa	caaaccgggg	cccagatgag	aaacgcgctc	gcgttgacca
129061	tccagaaagg	cagagtgtgt	gcttctgaag	gcagtgttct	ccagcctttc	taccttccat
129121	taaatgggtg	agtctgtcct	tgtgtggatt	gatgttattt	ctaaagcaca	caattcattt
129181	caagagggga	gaggcaggat	taagctggaa	atagtttttt	ttctatttag	aaaaaattaa

FIGURE 6AAA

129241	gtgtaagtgg	aaacgtttttc	atgaaaatgt	ttttatatct	caacgttttcc	tgcgagcact
129301	ctgatcccaa	tatatcacag	gactgagctg	gatgagggag	aatgaaggca	aatgaatatt
129361	aaataaaaatt	gaaactgacc	ggctaggctt	tattctccaa	atctcatgaa	atagcaaagc
129421	tgagggggac	agagccacaa	ataaaccaaa	agaaaaaaaa	aaccaaacaa	acaaaaaaaa
129481	aaaaaaaaaaa	gaagcaactc	aacgctttca	gctcaaatga	gtttcaattt	tatttcaaaa
129541	tgtttttaaaa	tctagtttat	tttcatagcc	acaaaaagctt	ttgaatacct	atgaatcaaa
129601	agccatttgg	cagaaccatg	gagcttgtcc	tagttgcttt	ctctcaaaact	cttccctggg
129661	cctgttaacc	ccttgttagt	cagtcacgca	cagcaggtca	ctctcagtac	ccagttctta
129721	ggggcactct	acagccttag	tgtgtatgag	caggcagagg	ctctaggctg	gacggcacat
129781	ttttaaaata	cacattttta	agtgtatgta	ttttttttta	ttagtcttaa	ataggatagg
129841	gaaaatgata	tatacagact	ttaactacta	attacttttag	acaaagaaca	aacagaaaac
129901	aaaaaaca	aacaaccccc	tccccaaccc	caaaccacaa	aaaccactaa	aaaacaaaac
129961	aaaaaaaccc	caatccacat	cctttagaga	ttatttttgtt	aatctgcac	ttgatctgtg
130021	ctgctcaggg	gccacaggag	gccacaggag	gcctctgaaa	cttgaaacag	ttaagattaa
130081	gtaaaaagtg	caacgaagag	agctcaccac	atcctaata	tttctcaact	actcaactcc
130141	cggctaccac	acgcagggca	gacacagggg	atctgtcgag	gcacaagact	acagagtaac
130201	agtgcaggtc	agacagaaga	gcaggggtgt	ggtctcagtc	cagctctcac	atagctcatg
130261	ctggcctcaa	tttcgccatg	tctctgaaga	tggccttgaa	ctgatcttcc	ggctcccttt
130321	gggactgcc	ggtgtgtgtt	actctacaca	ggttacgtaa	ttgtcaggcc	tttgtgtttg
130381	tgtgcatttc	cctaagcaac	ttcatgtaca	aagctaagtt	gggtatgcat	tctctcccca
130441	ggcctggccc	cttactctct	accgtaaaat	gcttcttccc	taacaacccg	acttgagtgg
130501	ggtccctacg	tacagagaaa	ggagatatatt	acagaagaaa	gggcaaatga	ctgcttttac
130561	agggaaagag	catcccaggt	caacacacgt	accagattgt	agagagggca	ggtgtctcca
130621	tccccgtgcc	tctctatttc	ctttccaaca	ctcagccctg	tgtgagcaga	gagtaaggcc
130681	cctctttgat	gctgcacccc	cctattataa	gcacaatgct	tgtaaccaaa	cagatgggtg
130741	gatgttttggg	aaatgactga	atgaaacaaa	agaagaatgg	tattctgtta	aacaacagcc
130801	aacatccctc	tagagcctgg	acacacgtct	ttatagagcc	tggatacaag	tctttatatt
130861	ggatagcaac	ctctttactt	tcaaatgcaa	tctcagagca	accagaaga	ctgattcagg
130921	tagtatacca	cagctcagtc	tcttccatgc	tcaacaatgg	ctccttccaa	atggcattag
130981	cgttgtctac	atatctgtac	agtcagagct	aatgtctatc	tgttcgtctt	taaattggcc
131041	agagcttttc	actttccata	tactattttca	cctacccttc	acctggatat	tgtctataca
131101	ataaaagagga	ggaaaccaag	gcttggggcg	aactgacttg	ccagatcaca	tagagttata
131161	ggatatataaa	tggaaaagct	ctggtaaaga	ttacagacta	tgtgtattct	attagctggc
131221	tgtaggacag	ctgaatggat	ctctttcaag	gaagggcatg	atttgtaagc	atcccacacg
131281	tcagtgtctga	gtaaggctcc	taagtccctgc	tggcttgctg	ccagccagta	gaccccttcc
131341	aggggtgaggg	aactgggcag	agctcagcac	aaccagctc	acctaactgt	ggctgtcaga
131401	atcattggat	cctgcccac	atacatccac	tctgtggcca	tatcccgcag	cttcacaagc
131461	ttcatcaggg	tcgggcctgt	gtctgcaaaa	agaccagctt	gagaagacca	ggaggtgtat
131521	atcaagtacc	actcgttcat	tcgttcgttc	attcactagt	cagaacttca	aaccaataac
131581	cccagaagta	aagacaaaaa	ctccctctgc	cctctgggtg	cttgaacttc	cctcttggac

FIGURE 6BBB

131641	ccaattccca	caggttaggg	tttccagaag	ctttcaaaaa	aaaatcactg	atgaaacact
131701	agctcttttag	cttagcgtat	tatacaaaaag	gctgatttcc	gatttatcaa	agggttacca
131761	aataggaagt	ataaaaaaccg	tatgatcctt	acagggaatg	gtcaaagagc	agtgatcaag
131821	tccctgattt	acataattct	cagccattct	tttggcagac	ctctacagcc	actaacattt
131881	ccatctacgg	atgataaaaa	gataactcct	cccccttcct	gggtgcctgt	caggtataaa
131941	cttgaagccg	ggcacagtta	atcctcacia	ctcccccaagg	aagaggattt	accatgtttg
132001	ctccagatta	agaaagaagg	gtcaggcctg	aattccaggc	atcagaattc	tactgagagg
132061	gaagagagac	agacagacag	ctttcactct	ggcctagagt	gcagagaaaa	ctactacttt
132121	ctgtgggaag	aaaagtcagt	caaccacagg	aatcacagaa	ggatccatca	caagaggacg
132181	ccactgtccc	ttaagcagag	acaggactga	gaagaacaaa	ggtactactg	ggacagaata
132241	tggagaggtc	agcttgagga	agtgtcttag	caaatggcat	caaggaggcc	atttccccaa
132301	ctggagagag	acctcagatc	ctcaccacag	gagccaggta	gcactgtggg	acgcacacat
132361	accatgtgtg	tactgatgtg	gtggggagaca	caggcagagg	tggcaggggtg	aaatcaggtc
132421	aagaagaact	gagagccagg	ccggggccac	tgctctgccc	tgcttatgaa	agccagggga
132481	ttaagtcaag	acttcactcg	tgattcaaaa	agttatctga	agacatggcg	ggaagtacag
132541	ctaggtctca	ccacccctcc	ccctcccccc	cagctctgca	tgctcaactg	aggacgtgcc
132601	acttggcacg	ctggcactct	cctacaggaa	aacatacttt	ggctattcag	acgtgacttc
132661	ctggcactcg	gaagctgttg	gcatggaaaa	attaacaggc	tgacttggcc	agggaggaac
132721	ggttaacaca	aatcaccagg	aaaagatgag	ccctgagcaa	gcgggaggtt	tgaggggaagg
132781	gtcacggaaa	aaagaagggg	taagacacat	ttgtcaggag	tcccaggctg	gtaccaagcc
132841	cactgcatga	caaaggtcat	tgagccctca	cagccataca	cagacatcac	ggctttcctt
132901	tcaggcagtg	gacaaggagg	ctaacggagg	tgaacttact	tggcctggat	gaggcagcta
132961	ataagggaca	ggagctggta	cacacatcat	cacaacattc	ttcattacgg	tctctttctg
133021	ccttcaaccc	cttgcccagt	ttgtaacttc	ataaggtggg	gtaatgatgc	caggaaacttt
133081	gtagccctga	ggcagaactc	tgccccagct	gtggccttcg	taacctcccc	ttactacaag
133141	cgacacagcc	acctccactc	aaatcctgac	gacagctcag	tatataacgg	tagcgtgtta
133201	catactaact	tggtcatttt	ggggaaagct	gcttgtgtgt	gtaaaggggg	gggggtgggt
133261	tggggccttg	gatcaaacaa	atgagtaagt	aggaaaaaag	accaaccatc	cactgagatc
133321	ctaaccaggc	tttcataact	taagactgga	gtcttccaca	aactcacaca	ggtagccata
133381	gaagctactc	ctggaaatcc	aatcctggcc	agaacatgct	agggccaccc	acattcctac
133441	ctgcagcaac	cttcctttct	ccctcagcat	caaccctaag	atcctccagg	gctctgtagc
133501	tcagtaactt	tgcagggtgt	taagtctaga	ggagcccaga	ggtccgtggc	ctcccattgtg
133561	gggggttacia	ttcctacaac	cttaaatcct	gtaaagcgtg	cccacaaggt	ccttcagctt
133621	ctcgccagaa	cttccaaacc	ttgcctttac	acttaacaaa	gcttcctact	aaatatctac
133681	accaaatttc	cgtacattag	tttttctttc	tgcttgtgaa	aggggtgggtg	gtgggtggta
133741	aactagtcaa	gatcggatat	cctctgcaat	accagcttct	agaaaagagc	gtttttgaat
133801	gggatgccac	gtgctgtgtt	ttgccatatt	gcctgcgctt	cctgcttgga	gccagagtaa
133861	cagaaacctt	gggactggg	aactgttccg	tgccacgcaa	attccactcc	gtatcttcca
133921	ggcaaccctg	tcgcaaataa	ttcatgtcca	ctacgccccct	accacacaga	atacaactac
133981	attgtgctgc	tagaaatggg	aaacctgatt	cagatcagag	aaggtagaaa	aacatttagt

FIGURE 6CCC

134041	tcaacacaat	actgccttta	tgaaaagggg	cgtgcgccgg	gtgggtggtgt	aaatcccaaa
134101	cctgtaagt	gggatatag	tcaagacgaa	ttttggaaga	aaatgcagaa	tcaaaatagc
134161	atccagcttg	actcagacca	gtaataataa	taacaacaac	aaaaaccag	ccagtccttc
134221	tagagctacg	cctgttttag	ctgcgcgggtg	ctcttaaatg	ccagccagcc	tgtttctctg
134281	ggaaatgggtg	ctgctgctac	agcgtgactt	gctttgcgtg	ctgcaataaa	aggaaaacaa
134341	gcttgacaga	cccaatagct	tccttcagtt	tgtgcctagc	agcggggaga	aaattaaaaa
134401	aaaaaaaaaa	aaaagcctga	aaaggggtcc	tgaggcaagg	tgaatggagg	acaggatcct
134461	agagaacagc	actgccctgc	aggatttttg	taaacagcag	cctgtaatgg	ccacggttag
134521	agaaagaaaa	acagacatgg	aggggaagcg	gtttacaact	gcagcaaggg	cgaggaggcg
134581	agggagggat	tccccggctc	tgcgctcggc	cctcttcact	ccgggtggggc	ccccggggtg
134641	ggctgagctt	cagctcccca	ccccaatccg	tgctttcttg	gggggcccc	catcttggtt
134701	atgggaaggt	tactcctcct	cggctctggt	gatcgcgtcc	ctaatactcc	agctgcatcc
134761	ttgcgggatg	ccagcttgac	tgacaagtc	tgcagccaat	cgctggttgg	gcccttagga
134821	aaggtggaat	ttcccaacaa	actgattggc	tgagagagag	ggcggggcct	ggtgattggc
134881	gtgttattcc	gagtagaaag	tagtaaacaa	ccttggtcca	ggggcggtgg	ggagggcgcc
134941	cggtgccagc	tccctctggc	tggcagggcg	gggtggggaa	gcacccgaga	caaaaggaat
135001	cctggctgcc	acagcgggga	gggcaggaag	ggggtggccc	caaaagtcag	cacctggagg
135061	cgtcgtttgg	agcccccccc	cccccccccc	cgagccagaa	ctgctgactt	taagccacac
135121	atcgtttttt	tgttttgtgc	agaacctcaa	aggttttgtt	tccatcattt	tactttcttg
135181	tatggctgac	gaagtctcca	atggaatgat	aaccgattta	gtcgcttttg	tccagaagcc
135241	ccttcctcac	cgtcgaataa	aaatttaaaa	ttgtctttta	cgaaagttgc	tttaaatcac
135301	acactaaaat	tgttgacta	tacaatacgc	cattaatggc	atgctggtgc	accagacaca
135361	cagctacatc	ttttgatagc	aagttttagg	agctctgagc	ctattgggag	cagctgggat
135421	ggagaacata	cacaaaaaga	aacaacacat	gacggcggtg	ggaccacttg	ataagaaata
135481	agcggttaac	ttgccttgcc	catagtattt	ctggcagtc	cacttgaate	tccattccc
135541	tactccagc	ttcaccatcc	ttacaggacc	ccaggcgag	gaaaccatct	gctcttagga
135601	tggggggctc	tgctcacccc	gcacataaac	atgctcacia	gtcgctatcc	tgagcaagcc
135661	tcctcaatgt	aaaaggggac	caggaggcca	gccaagccgg	ctctctccac	ttcaatgctt
135721	ggtgaatata	cagagaccac	gttgtcactt	ttcacaatca	agatatatcg	gtatcacgat
135781	atatcgataa	cgggtacttt	ataggagata	acagtgcaaa	ctggccacct	ggcattctcc
135841	tttgccattc	tagtccctca	cctctgctat	ctcctatgga	gcctgccaca	agcaacccca
135901	gtaaatgttc	accccaagtc	acctttgctg	tataaaacat	ggatttaggc	tttccttggt
135961	ccttgacagc	tggcatcaga	ccccaaacca	gtagctactt	tcattgtagg	cacctctcct
136021	ctggacactt	tgttctgttc	ccaggctcct	gcccagacca	cacacatcat	ttactcaac
136081	gttggttttt	atgctttcta	gactttacct	ctgcctgccc	aggagaggcc	actgttctcc
136141	accgttctcc	ctggcccagc	taccccaact	cctgcagaag	actgaaattt	gttttcttag
136201	cactaagtct	ctgatagggc	tttaatgctg	tatttagact	ccactcctac	gttaagaccc
136261	tgaacttcct	gaggcctgga	atggtattat	cttcagattt	gggtcttcag	tggagatggg
136321	cttctactaa	agtgcccgct	gcaaacttgc	caaataattc	taggattctt	ccctagcatc
136381	ctgagtatgc	ctacccctga	aaatctttcc	ttacacacgt	gcaattaatg	tgttttctct

FIGURE 6DDD

136441	gctgggtcaa	caactctgtt	ttctctactt	ggcaaatttc	cactctgcct	aaaatcactt
136501	cctctcttgg	catacctttc	acaacctccc	accaactaca	ctgtgtacca	agagcagaga
136561	ggtctctttc	cgttcttact	tctctggcca	gaattagcta	caaaactaga	actagcatgg
136621	tttgttggtg	aaggaagagc	ggagaggcaa	aatttcagaa	gtgggtatcac	ctgtacatct
136681	gcataaccac	cccattgcca	tctgtagggg	tgaagcagcg	ccatgtctccg	tttgtggctg
136741	tgatgggtctc	cccctgcttt	ctgtctgaag	gcctctgtct	ctgaggtgga	ttcttactcc
136801	cccctccatc	tcaatcagag	atctcctcct	ggctcttatg	ctatcaactc	tgcacatccc
136861	cgattccttt	ccaccatgac	actgaactgt	catctccttt	tctatctgac	cagtcactga
136921	cttgcctcac	gtttagtctg	tccgccatac	agccatatcc	agtgttctaa	gaattgtggg
136981	gttccacagc	tggggctcag	tctctgctta	cggcctcatg	tgacatctgt	catcaacctt
137041	ccatctttct	aagcctttta	tgggtggaaaa	gagtaaactt	gtagataaag	agtgggtacca
137101	gatttcacct	taagattaca	gatacttggt	tgtgaataga	atttgttctg	gtacaggcaa
137161	atgcacgggt	taaaatcaaa	actaacaaaa	tatacagtat	attagctggg	aacaaatagc
137221	caactaaagc	aatgtaaagc	tgggagtcctg	tattctggct	caaagcccat	cacgggtgagg
137281	caaacatgat	ggcctgagct	tcaggatgct	cattaccaca	ctgcactctc	agtcaagaag
137341	cagagagaa	tggttcccag	gacaggggct	ggtgctgcct	aagtcttggt	cttcccgtct
137401	ttaagttaac	acggcccttg	gcaggcatgc	ctgaagcttg	acttttcggg	gattacagac
137461	cctatcaaac	accataaata	ataacaccac	acatatatta	catatataaa	aactataaca
137521	cagaacactc	aattggcttt	cagtaagtgg	gctatttttt	tttctttgtt	gcttaatgta
137581	ttctagatct	gtctatgttt	acaaacggta	tgtcttctct	actaacaat	aggatttcaa
137641	attaaaaagc	tgaacagcaa	aggagacagt	gaagagacaa	tctgttagct	tttcatctga
137701	caagggatta	atatactgaa	tatataaaga	acaaaattta	aatgtcaaaa	gaacaaataa
137761	tcaaaccaat	aaatgggcaa	attaatcaaa	tgggcagttt	tcaaaagaag	cacaaaagac
137821	caatacatat	atgagaaatg	ctcaacaccc	ttagccacca	gggaaatgca	aatgtaaacc
137881	acaccgagat	tcaaattctca	ccccattcac	aatggagcac	attaagacaa	ccatcaacaa
137941	acactggcaa	ggatgcaggg	ggaaatgtgc	ctgtacacat	tgttgggtgga	aataaaaaatg
138001	aagtagttta	gatactatgg	aagcctatat	ggccaaaaat	gtgctactac	ctcacttcgg
138061	gatgtacaga	tgtgatgcta	agtcagcaca	cgacacatcc	acgttactat	ccacatcagc
138121	caagcaatgg	gaccaggaaa	agatgaagga	aatgtgatgc	acacgcacag	ctgtgtcaga
138181	tgtcaaggat	aaaaccaa	tatcggcggg	aagttaagga	gtggacaatc	atctgaagtg
138241	acgctggcca	gaccaaagcc	tatctcatct	gtgtattttt	tttttttaat	gaaaataaaa
138301	gggaggcttt	gtacagaggg	aggaaatgat	acagaaggga	aagaagggac	aaacagaaga
138361	taatgggtgg	taatcaaagc	acattttgta	tatggatgaa	agtattaaaa	caagaaaaca
138421	gccatcttat	cttcacagac	agcattctgc	tctatagata	accctgagtg	gtccccaacc
138481	ttgcctgtgt	gtttaaatca	ctgttacttc	cccagaagcg	gatttagttg	gtttagaggc
138541	tatcacgtga	gccttgaaat	gaaacagtag	aaacaaagtc	ccagatgatt	ctaattgagga
138601	ggcaggtttg	agagataaca	gtaaacctat	ttattatccc	tctactgata	gaacttgtca
138661	tttcagacaa	caccatgtaa	agtggcctaa	tacacctgtc	agttcaccgg	tgtgctgggtg
138721	tgtctgtggg	tgatcatcct	gggagaatta	ccatgtcaaa	gggcacaggc	actggtacat
138781	cagaaatgct	ggcaaattac	attccattac	acacacacac	acacacacac	acacacacac

FIGURE 6EEE

```

138841 acacacacac acacacacac acacaccatc ttccagcccc ctctgccaaag tggggctggt
138901 ttcctataga tctgtcatca gaatctgtga ctgaacattt tagattttca agcatggggg
138961 gctgggagga gctctgaata ctcataaaaa ggacttttctg atgtgttcta ctacaacatt
139021 tctggttcct ttgtttgttt gttgtgtgtt acacctttat tatgaattca cttagagtct
139081 aacaaggatg gacctatgat ccaacatcag ttaagtaaag agcgtatttg ctccaatgat
139141 ataaaacgtc atcttattaa acaacgaacg gccacatggt ctcacatcta cggctggata
139201 tcatattctg tcccttcaca tactggcacc ttgctagcta tttaatcatt aattacttag
139261 gcaccatggg atgctttaat tatctggtaa tttcgttggg cttgttttagc actattacta
139321 ttatcaccat tattattggt gctattattg acgactgtag agtcagtttg tataattaaa
139381 agaaaccaca tagtatttga agtatattaa ctttataaac acaggaagaa ctgacatctt
139441 gctaacattg gttagactcg cattaaagggt atgggttctat cttttatttg aatttatatt
139501 tggcagcatt ttgttcagta ctatttttct tattaatttt taagcatttt tctctgggaa
139561 aaacttttct tctatgatgt tgtatagcaa attatttgca cactgtagcg ttatcacatg
139621 actaagtctg gcttatgtta ttccagaag atgcttaatt ccatgccctt agaactctgag
139681 catgtatgca catgtgtgaa cccacagggc aactctgggt gctgttcctc cctccacctt
139741 atttcagaca ggttctcttg ctgggctgta gcacaccaat gaagcaaaca agtggctggc
139801 cacaagcccc aggggtctgt ctacctctgt ttctacataa cggagatttc aagcttgtgc
139861 cactgtgccc gtgattttta agatagattc ttcgacttga agtcagttcc ccacatttgt
139921 gtggcaatca tgccattgat ggagctattt gccaaagtcc ctgtgctctt agaactctca
139981 ataaataaac gacaccaaag gtcttttccc ctccactagta tgaagtttat tttttttttt
140041 tattggatat tttctttatt tacatttcaa atgttgtccc ctttcctgct ctcccaaaaa
140101 ccctctgtcc catccctcct cccctgtct ctatgagggg gttccccccac ccactcactc
140161 ctgcctgggt gcctggcatt cccctagact ggggtattga gccttcacag gaccaaggtc
140221 ctctcctccc attgatgccc aaccaggcca tcctctgcta tgtgtgactt gagccatggg
140281 tccctccatg tattgggtgt ttagtccttg ggagctctgg ggggtctggg tgcttgatgt
140341 cattgttctt tcaatggggg tgcaaacccc ttcagttcct tcagtctttt ttctaactcc
140401 tccactgggg accctcattg gggaccacat gttcagtcca atgggtgggt gcgagcatcc
140461 acctctgtat ttgtcaggct ctggcagaaa gtactttttg gcattccaaa tagtgtctgg
140521 gtttggtgat tgtatatggg atggatcccc aggtggggca gtctttggat ggcctttctt
140581 tcagtctctg ctccacactc tgtctccaca tttgtcccgg tgagtacttt gtaccactta
140641 ctaagaagga ccaaagcact catacttttg tcttcttctt tcttgagctt catgtggcct
140701 atgaattgta tcttgggtat cctcaacttt tgggctaata taccaagggt ctaatcaact
140761 caattcaaac caataaattt tgacttgaca tttaacaacg aagcaattca gatgtagggc
140821 atagcactag ctggtagagg caagactgga tatggggagc ttctaaccga agagtggaaa
140881 gtgttgggag aacaagactg agggcttggg gcagtgtggg tgaggtggaa agctaactgc
140941 gtgccttagt gcatgcctta ggaaagtatc tcagctaggg tactatagca gctatgcac
141001 tatctatacc agagaaaccc cacagagctg gacatacaga tgagctcatt catgtctgat
141061 gagctcattc atacacgtga tagccatgat gttctgctga acgttttatg agataaaacc
141121 aagtttctctg tttcagagct gtgtgtttta aggtatgtcc ctttatgaac attaaacaac
141181 cagctgtatg tgggtgtgtc aataatccca gaacaagagg gctcatggaa gaagggtctt

```

FIGURE 6FFF

141241	aacttcagac	tagcttggaa	taaatagtgc	aaccatgtct	caacagacaa	acgtaactaa
141301	aatatcatct	tacaaaccaa	gaggtcccg	cataaatatc	agagcagagc	tgcccagcct
141361	tggctctcatt	ccagacctct	taacctatga	cctcttgggc	tgaggtcata	gtcggcatag
141421	ggaagtgcct	ggctagtaac	aacaacacag	tcacacatat	ctgtcctcaa	ggagctcctc
141481	gagtaaaccac	ctttgctctg	atgatgacaa	gcatggccac	agtccctgtg	cttgcagaat
141541	cttgggttaga	aagctcccaa	caccaccatc	ttccactagt	tagcctctgc	tgttccccga
141601	actgaatccc	taagtaccga	atgctctcct	gttccacaca	gaaacctctg	agaagcccg
141661	tttacagaat	cagagactgg	gccattcctc	gaagcattgc	taaagaactg	gcaggagtca
141721	ctcaagttct	caggagctat	gggaagataa	gattctcccc	aatgcggttg	cactgaaaga
141781	cagggcagta	aagaacaatt	atgcctaacc	ccgatttctc	tctgaatcca	tttattactt
141841	ctcaatttag	gagagtcact	cttgtacctg	caccctggcc	actactcaga	aaaacattag
141901	tgtatccaat	gatcccttta	gtaactactg	gagaagcagc	tagctgaagc	atgggggaat
141961	taaggaagac	cttaggagtt	caaaacccca	aagtacaaac	gcactgtcag	cacacggaga
142021	gatctgtttt	tttatgcatg	ccttatgcaa	actggcctaa	gctaaaaaat	gttataaagc
142081	attttgagga	gtaaattttg	atttcagggg	taaaaagaaa	tgtacagagt	caaagaatct
142141	ttctgttggc	tgataacaga	gactccttgg	aaaaattgac	atttcttttc	gagaagcaaa
142201	aggtggagta	gaaatagtgt	gagcagcata	tgatgtcttg	tgacaatgca	gagaaggcag
142261	ttgggagctg	ccactaatgt	cgagttttca	ttaggctcat	atctccaact	tttggttttg
142321	tgaggctgca	actcaattgt	gtagtaaaaa	aaatttgtag	tccattaggg	tgcttttaat
142381	attcactata	tctactatga	aataggagct	tagatgatga	tgatgacaac	aacagtaata
142441	gcagcagcta	ctttgaaaca	ctcacaggca	ttgtgagttg	gagccctgag	cactaaccac
142501	tgtaatttgc	tatcaggacc	actgggtatg	gcattcggaa	aacggacata	tgcaatcaat
142561	gcttgtgaca	tgggagaaca	aaaccttgtc	aaccaactgc	aaacagatgg	ctcatggaca
142621	acaaaacctt	agagaaaaat	gcaggaatat	cagcggggca	gtggggagga	aaagagaaca
142681	ctttccagac	tgtatgcata	gaagggcctc	aaaggccgcc	atgacagatg	tgttcctgta
142741	tcgggggtcaa	caaagaataa	agcccatagc	acaattctta	ggaaaagtgt	aaatgcctgt
142801	tttgtaaata	aaacacaccg	acttaaat	ctactactta	attttataaa	ttccgcttaa
142861	atatgtgtct	aaatacactt	ttttcccctt	gttttgagac	atggctctct	tacgtagccc
142921	tggctatcct	agaactagtt	atgtagacca	ggctgacccc	tgacgcgtgg	ggaccctttt
142981	gcttcttcat	ctggagtgtc	gggattaaag	acatacatca	accagctggg	cttaagtgtc
143041	tagattttta	acttctttat	atttattctt	accctcagtg	ttattgaaca	ttgactgtgc
143101	agacttcaga	gtttaccaag	tttgaggggc	tggccaaatc	cttctggact	tactgagaaa
143161	ggaacagacc	caggacaccg	actggagcta	cacgggtggc	gccatggcgc	caggccgaga
143221	cacgtggatc	cttcggcttt	gcttctgtgt	ctcagctacc	tcagaggttt	gctgtggaat
143281	cactagtatt	ttaaacaatg	caaacgcaat	tacagttgaa	gcacattctc	taggagaagg
143341	aaaaggagat	tggcatgtag	aagcttcatt	aaacttttgg	cctttttcaa	gctaaacgag
143401	tcttaagaaa	agccataaaa	agttcccgtt	gattgattta	aaaacaggct	tttttttttt
143461	tttttttttt	ttgcaattag	cagatctaaa	tctacgaaag	ggagaaacac	gtacggcact
143521	tttagttaac	ttcctgcttt	ctctgtgtat	ttcaaatacg	aacaattaag	actctctata
143581	gacacacgta	cagatacaca	aatacttagc	aggacgtaaa	cttctatatt	ggcttcatga

FIGURE 6GGG

143641	aaatggtagt	tatgtttcca	cacacacaat	gaattctggc	agtttattta	caagcagaca
143701	tcccatctgc	accagggata	ataccctcaa	ctatgtgaca	tgctacatcc	ctcctgaaca
143761	cagtagggct	aggaaagcac	tgagaggata	taaacatgtt	cagggttac	aatattcctt
143821	cctaattgctt	ctttcccca	cttactgtaa	cgatttactg	gaaagattgg	actaaattac
143881	cgtcttccct	ttatcgtecc	aatttgtttg	catttggtat	cctctccttt	ctcttggaat
143941	ctcccttgct	tttccttttg	tcagtaagtt	aaattgcttc	tcctcccaca	tgcataaaaag
144001	cattaatttta	taaaacacat	agctgtatgt	catatctcat	gtaattctat	tttacatttt
144061	accactagct	agacttatct	aacatgaaca	aatagatatt	atttactgta	gccagaatga
144121	gaattatcta	atgccactta	catagccaga	aattgatttt	tgattaatgt	ttaagcgaaa
144181	agcaaacaaa	cccatctgct	ctgaaaacaa	acaaacaaag	aggagcagag	cactgagtcc
144241	tcggttcgca	ggcattcctg	caggcctagt	gcctcagcgg	ctgcagaatg	gggcccttca
144301	ccccagggga	aagcggacca	ctgacaagaa	caggactcca	ggcccagact	ggagtttctt
144361	ctccagcaag	tgttgagtaa	aagatttttt	acttattggg	gggggggggg	agacgggacg
144421	ggactgggga	ccacaacaaa	caacaaatct	ctaaaccctc	tcaggatcag	cagagaattt
144481	catcttgggc	gcccactgga	agtcaaggaa	gttggttaatg	gtcatgtttt	ccttcttccc
144541	tcttgttcac	taggtcagtt	aaaagacaaa	gaaaaaggct	gggcatgggtg	gtgcatgcct
144601	ttagtcctag	cacttagaag	gcagaggcag	aggttctctt	ggagtttgag	gccagcctgg
144661	tctacagagt	tagtttttagg	agagctagcc	ttcacgggtca	tctgcccaca	cacacacaca
144721	cacacacaca	cacacacaca	cacacacaca	aactgacaaa	atgtaaataca	agaaagaaac
144781	aaaaacaaag	aaaaacagcc	ctgtgccatt	tattcttata	atctctgcgg	tttcctcagt
144841	atgaagaaca	gagtgcagtt	tatagttctt	gtccactcca	tttatattga	atatataaat
144901	tattttctaa	gatacttata	tacataacca	aatttgtttt	taacaaattt	aatgaaaaaca
144961	ttcagcatga	aactaaatag	cagtaagact	ctcagatggg	gtcttaggtt	aaaaacaaga
145021	ggagcactcc	aaccttttct	ttgacaagggt	ctcttgatc	ccaggctaac	ccgtatgtag
145081	ccgaagatga	cttttaacag	ctgaccaggt	cccttccacc	gcttctgttg	tactggatcc
145141	cagggcctcc	acgcacccca	gagaagcact	ctaacaactc	actgccagct	aagctacagc
145201	ccggcctcct	ttggagcact	ttcaacagcc	aaaactgaca	caatacatat	gcatacaaca
145261	gcaagctgaa	caccaccac	cgggtgtgctg	agagaagaga	ctcaaaactca	caactttcaa
145321	agtcccatac	caagcctgat	gatgcaaaca	caacttgaag	tcttattggc	gacgctccgg
145381	atactaccag	ttgctaaagg	aacagagtgg	gactgcgact	gcattctgaa	acattttcta
145441	caaatactca	tcttgacga	agaagtaagg	tgcaagtgcc	tttatgactc	tatttccact
145501	ctagacgctc	aggctcaagg	cagagcgctt	agatcctgct	gcacttccat	aaaaacaagc
145561	ctgattttatg	ctgaaagact	ttaatgacaa	agttgtcctg	atgtgcgtgc	gtgctgtgtg
145621	gcacgcgcac	acacacagac	acacagagag	agagagagag	agagagagag	agagagagag
145681	agagacagag	agggagagag	agagagagag	agagagagag	agagagagag	agagagagag
145741	aggacctaga	gaacaagggc	ctttgtcttg	ctctgccgaa	gcacagtga	catttcttga
145801	gccctgattt	agcctttaac	tgatgggtct	ggtttggtgt	tcaacagaaa	taattgcatg
145861	actgacaaaa	aaaggaaaag	caaacaaggt	cttaaataat	gattgttggc	gtaccaactg
145921	caccaacctt	ttctaattac	aactctccat	tttattattg	tcaggcaaag	tgagtacctt
145981	aacttgaaaag	gctaagctga	gggggaaaag	cctttttgtc	tctactttac	aggtttgttt

FIGURE 6HHH

146041	ttataaacac	tccctcagtc	cccccaaagc	aacaggaggc	aggcacaatg	accctactga
146101	ggagtacagc	ttttacctcc	atggggacaat	agatttgcttt	tctgttagcc	cctggggagta
146161	aaaccagctt	taatatggat	gccctttcct	tatcaaagac	agcagggtaa	tacggggagg
146221	gctgccaagc	ttgggttgtg	cggacttggc	aggtatgagg	cctacctcgc	ttctacacca
146281	cgtcactcaa	ggaacagagc	agaagaaaca	cgttctggaa	ctttccagag	aggccatcct
146341	tgttcatgta	ttctagtcca	gagttctact	tctctctaca	gagatggatg	aaacaaaagc
146401	aaaacaacac	agagaaaaac	cccttctaag	ggagctggag	ggaggagata	atctagagag
146461	aggatgcaa	aagtggcttg	tttccaagtg	acaaaatgca	cctttgctgg	ggaagctagc
146521	aaggtagaag	cccctgttca	gaacttttca	aggagcagat	gaagacaaaa	aaatgccacg
146581	caatggggga	cggaatcctc	tagatgtcga	gaaaaagcag	cggccatgcc	cagggagcag
146641	gactagagag	aggcaagcca	actcctgctc	atggcaaggc	ggcttgccctc	tccagcgcac
146701	tctgcagatg	tttccgcacg	ttgtttctat	agtctgaaga	cactccgctg	gcagtgtatt
146761	gttggatgct	ggcagaatct	ctagtcaaga	ctagcaactc	cacctccttc	ctgacatcag
146821	caagggggaa	cacaccagga	gccaggagac	aaggtgtagg	tgcaggagac	aaacaccgtg
146881	tgtgggtccag	agctgaactt	gtgctgggag	actgtcctgt	caggaaaaagt	aaaaaacaaa
146941	ccaacacaaa	aatccaggag	gtgcagagggt	agaggcagag	gcaggcgggt	ccctgtgaat
147001	ttgaggccag	tctgctttac	acagtgaagt	ccaggacagc	aggggctgta	tagagagacc
147061	ctgcctcaaa	aaacaacaca	aacaaacaaa	aacaaaagaa	gggggtgaag	aagagagggga
147121	gaaggtgggg	cgggggcccag	gggttgggta	tggggagggga	aacttaccct	ggtggagaca
147181	gtgaaactgt	tgtttgccac	tgctctctct	aggtaggggtc	taactgtact	cctgactaat
147241	cttcaacttg	ctgtattaat	caagttgggt	tccaactact	cttggaaacta	caggtgcaac
147301	ccaccacacc	atcgaagtct	tggcgcacag	ctctaggggg	cataggaaat	ggctttcccc
147361	gtgccttgta	gaaatggaac	tgaaggtca	tcatggcgggt	aagactgttt	tttagctcac
147421	actctcacac	tgcaaatgac	ctaattgacac	agcagggcct	ccggtaccat	cctcactccc
147481	acgctcccac	tccatcctaa	tgtttagctca	cttactcagt	ctaccacagg	cttaggtgac
147541	atctgaagga	atagcatact	ataaaaaacct	gacttggcca	ccacagcatg	caagctctaa
147601	ggcaggtaga	acatactggg	tttttgttgt	tgttgtttgt	ttttgtttgt	ttgtttttct
147661	tttccagttt	ctcccctcaa	agatcttcac	atcatgagtt	atgatactcg	ttcattacat
147721	cctcctagaa	tggctccagt	caagaagaga	aggctcaatg	acccacccca	actgcaaaag
147781	caaaaattatc	ttagaagaag	aagaaaagga	atggaccatg	taattaaaat	tacgaggggc
147841	agtgacttac	agaggtaaaa	agttaatcac	aaggactatc	tcaaagccta	gtgaaaaatg
147901	gggttttcag	aatcagacct	gtcaaaggta	accacgagat	gcaataatgt	ggtttggaag
147961	tctgggtgac	gggcagcagc	aggaacagggt	caggggaagg	gggagtaaat	tgtttgcaaa
148021	atgaaatgca	gaatgaaaga	ccatttgagc	acacaggcat	ctactctaaa	acctgcaaat
148081	acctcagcct	cagtcctctc	acggaggact	ggggagtgtg	cactcttctt	gttgcttttag
148141	aggaggtctc	tgctgcagaa	gcagggtggg	tgggtagagg	ttcctactga	aagctacttt
148201	gggtatccag	caccccgggg	ttggtagcaa	ggagtccctt	taatgaataa	atgaagctgg
148261	agctttccag	atgtttcatt	aatggggcac	ccagaaccaa	tgctgctgca	cccgtgcccc
148321	ctacaactac	taccggcatc	tgggagcact	tagctctaaa	gtaggttaga	gctggagtgt
148381	aactgtatct	atgtgaagac	tgagtttgta	tatgggaagc	tcagcataca	gcaaggccct

FIGURE 6III

```

148441 acgtgctggc tatcactgca atccaggcaa aggccttcctg gaaggctaac gaactataac
148501 ttggctgata atgccgttcg ttcattggctt cgtgagcgt ccagtcctcg tggccttggc
148561 gagagttgga gttgagtggg gactgcaggg acggaaactt ttccagcaag aaagagtccc
148621 tcttctccca cggtcactaa ggaggatact tgtatttttc caggatcagc tgagtcgtca
148681 caagaggaga gtggaggggc aggaggagac cgcctcaggc ggcgacaagg gagcccagca
148741 cctcccctga agttgcagcc agctgcttct tggctggaaa cttatttaag ttgtcctctg
148801 tcccacttct gaggtctctac agggatgctc tgggcactgg gatccatgaa caaacaggga
148861 tgagcggagc gaagggaaca ctctgctcag atgagtctgc ctctcaacgc cctttgccct
148921 cactgtgctg gtggggagtg ggggtggggg aatctgatgg gcaaaagcaa ggggaggaga
148981 tgtgactgtc acgcagaagg tgtgcccagc tcttagaaaa gtgaagaatt caagaaagca
149041 aacacaagca tctctcctgc ttctactccc tagttatccc aatcccaatg aatcttggaa
149101 taattttagt tactgacact ccagatagca tcttcaacag tgaagccaga agcagagcaa
149161 agggatctta gtagcatgtg ttaattttca tgcaggatgc aaaacaggca tttcaacttt
149221 catctttctg gatgcagcta cagtggccac catccctgac caggactctg tcttcatctc
149281 atcctttctaa cagttatgca tcaagagtgt atcagtaacc atatcaccat gcaggatgtg
149341 taacttgctt cttctctccc gtttcaggac agccagccac tggaaaagctc ttaacctcca
149401 gctaactgaa atctgcagat acgcttagga atccctccca accagccggg ttaacctcca
149461 tatgtttcta atctctaact tgtaccctt gtgcagctc aaagagatac atgtcacttc
149521 ccgactgat ctgacaaccc tctctctgag aggcataaa gcacctttc ccaaggatgg
149581 tcacttacag aaagctgcag gcaaagtaaa tccaagtctg ggcagcatat aataaatggc
149641 tagtggcaga taatgaaaag gctgaaatca caaaatcaaa attctttcca ataaaggtga
149701 atcccacacc tattcattaa cagtccccta ctgtctaaga tgtttgtgta agatcaatga
149761 ataagccatg tcagaagact tgccgactat ggaaactatt tggataatgc tccaaggggc
149821 tcaggaatag gacagatcca atttagaact gggggggggg gggaggggga cactctgtct
149881 ccaggccagg tgatgaagac ataccaggg tcattctttc accatgacaa agacatctcc
149941 attgtttcaa agtcactttc agtctcctac aaagtatatc ggagaatagt gtgccatgtg
150001 aatgaatgtt caaacttaag caagggtacc accttccttt cagaaacaac cagagaaata
150061 cgaaactgcc tctggggcat cgcaataagt agctggggct ggtaagctcc aagtcttacc
150121 tctgaagtca tcagtaagca tgggacagtg aaggctcaga cataacatct catccaagta
150181 atcaagagta acgccaccca tcacagatgt actggtgcca ccctgggcac agtgacacac
150241 cgaggggact gtataccctt cctgaaggag ttaatcactc aaatgcacaa acctaatgtc
150301 acgagagacc ccagtttaag agcaggttat ggggtcatag gatgagtgtc cgttaaaagt
150361 gacaacacca tgcaaaatca gcaagacaag cagacccatc acagcctcga gaagaccaca
150421 cagataagac acatccacac gaccaaagac ttgggaatga aagaaagcac gttagtggga
150481 aaactgggtg aattttaaata aagcctgcta agaataattg gccaatgtta gtgtcttggg
150541 tgtgataact ggattatgat tatgtaagat gttaacatga ggagagctgg gtgacatttc
150601 aggaactctc tgtgccgttt tcaacttttt ctaagggttt tttttttttt tttaaatgaa
150661 gctgaggagg aagcagagag cctgggaggc tggcttactc tttagtgtgc tttgtcactt
150721 tgtccctggt aagtagggtc attatactac agagctggct tgtgttacag ctcttccgat
150781 tttgctccct ccatgtcttc ataacttttg gggaaatcga tgttactcag gtgagacaga

```

FIGURE 6JJJ

```

150841 agatgagtga agtcacaatg tcattggaga ttagagagag aaagagagag agacagacag
150901 atagacagag agagacagag aacaaacttc aaattttataa acacattatt cttccacaaa
150961 ggtccacatc acacactccc cccattttgtg caccaccctt gacaacacag ctgtgtgggtt
151021 ctctagaaga tgtagttgga accaactttt agcgtcctaa ggaatgatgt catccttttg
151081 tctataggag ctgggttccag aggtttttgtg gaacagcttt ctttccagaa agcagccagg
151141 tctgaagctg ctcagacttg ctcagactt cttctgtcta cagagtacgg caacatctcg
151201 tctacaggga ctgcgactgt tccggctctt tgatcatcct gttccctaaa ctttaacttcc
151261 ttaagttgca aaacattttac tcttggttgt ttgggtcctt cctcgggata gaaattcata
151321 ttctctgttt ctctctctct ctcaacgggg ctgtggactg aacttacgtg aacttcttgt
151381 gtttgccctg ctttctactga ccctacacct tcagtccttt tcctttgtac ggagaaagaa
151441 atcattaaag agaaaattgt tccttaaaat catccctttc cccatcctcc aagccttctg
151501 tagaaagtgc agtaatgaaa aaaagatgtg tactcacact ttgcttgtat cagctatgga
151561 tgggttccta cctatcttat tgccaaactg aaaaactact tggaaaatgt tccaatgggc
151621 tcggtagaat aatagctcca agtcagaact ggggtgcatg ggggtgtgtat agtctccaga
151681 gtggggaagg ctgggtactt gtcgggtcct gccctatcag cctaccagtt actacgtgc
151741 tcttccctgg cagctcagtc agtgtgcggc gtgggtctct ctcctggcca tctaaaatgt
151801 ctgcagttat tgtaacacag gatgtgattt ttagatcaat ataaacctgg tgaacagatc
151861 aatcctgtcc ctcataaaca caggcaagta tctgggtatc tagacgggtc tgacctctaa
151921 cctctgaacc aaattctcaa ccaaaccat cattagcaga ttgagcccaa gtaaattgcat
151981 gtgtgcagaa gtagaggttg actccttctt aactgctagg tttataccag ctaccttatg
152041 ggggtgcccc aataccatct ccaactaaaa ccctttcagt ttaaagggca aagggccctt
152101 aggtaaatgg ttcatttggt gaggcctcct ctctttgagc agtcacatga atccacaatg
152161 gagaaaagaga ctctaactcc tgggatttct ggtaacctaa agagttccat gtctttccta
152221 cacaattggt ccccagacgg ctcaagtctt attgaaccga tatatcaatt ctgggtggagt
152281 taaaatgctg agtaagagaa aataaagctg aagtaagcgt aaagacaaga gttgttttgt
152341 tttagctgga acatgattct ttgatgagaa aactctcata aacaggaaaa agcacattat
152401 tgaagctgaa gtgtttgatg gcttccattt tcctaagagc atttcgcctt agacacagg
152461 gataactgtc aagagcagcc agagtgattc ctctggatat ttctaccata aatatttctg
152521 aggtcctact gtgtgccagg gattgtagt atagtgggga taaaagata ggagttgagg
152581 ctatatacac tcttttcaaa ggcaaagtct cgagctctaa acgcacgact caaacacaaa
152641 accatgatat gcaaaggaaa caaatgggtt gtttcttggg gacaggttga acagtaagta
152701 tgggtgacagg ttttaattag aagacttcag aagagcaggg ctggggccatg taaatcaaat
152761 cctatatcag ggtctgtact aaactcagaa agactaactc aggcagttac tagagttatc
152821 atgatcctac acagaagttc atataaggac cctaactctg aaagcagaga tttgtttgtt
152881 tgtttttttt ggctgcctct agctagcaca tttatgaaaa acaggttaag ttactggctc
152941 caaattactc cttaataaaa aaaacaaaca aacaaaacag cataagcttt taagattttc
153001 ttttttaaaa cctagaaaac agtctccctg tcaagagcag gcatgattaa tgacttctgt
153061 gctgtaagct tgggtatccg ccgtgttact agtgtgtgat actcctaaca gcttgtaatt
153121 gccccgagga tacttttgga actgaaaggt gtggggcggg gcctaccttc ttaatatctc
153181 cataattttt tggggggggg ttagactaca tttatcaatg ggacattgaa aatacagaaa

```

FIGURE 6KKK

153241	cattgtcaag	tcatccacat	gaaattatga	atgcattatc	atctgaagag	tcattttccat
153301	aaaacggcag	atgacaaata	gtcagctctc	agtatccatg	ggggatgggt	tcaagatccc
153361	tccctcagac	atgaaaatct	gagatgagca	agtttcttat	tatagatggg	aaatctgcat
153421	atgatttaag	tttttcttcc	tgcatactag	aaatcagagc	tagatgggtt	gccatacttg
153481	agagcgcaca	aacgctgcgt	aaacagtcaa	ccgtacggca	ctgcttagag	cagtggttct
153541	caaccttcct	aacgctgcct	ctcaaagtct	gggaatggaa	gggtgtggc	accatgctca
153601	gctagaatcc	cattgtaagt	atggcactgg	ctggacctac	atctgcagaa	ctccagggtta
153661	ctgaagggct	gtactgcata	ctagcagctt	cctaggtctt	aggaagctac	caacctgcaa
153721	actccttctg	aggtgaaacc	acaacagggc	atccaccaa	ctcaaccact	ggaacccaat
153781	gaaccagtca	agttaacaga	acactgagcc	accttttgtg	ctccatgaca	gccctgacag
153841	acaacatagg	caagctctat	cacactgtat	ggctcaacca	gccatatttt	ccatagaggg
153901	gaaatggagt	ttgctgcttt	gtttggcaga	tgcaaagagt	aaagtagagg	ggaaccaa
153961	gagcttagag	cacttgggaa	ggtaggctga	cttcctagt	tgttccactg	taccacgcaa
154021	tcccactatt	agctccccac	ttcctctggg	caacaccaga	tctgaacgaa	acctacagga
154081	aggtttgaag	gtacctggcc	ttctaaattg	tggtttacat	aataacatca	ggccctctgg
154141	tagaccctgt	aggtcaacaa	cctaggaagc	caattcctat	agtccagctt	aaataacaac
154201	cttgtgtttc	aagggaaaa	aggaaggtgt	ggaaagcctc	cattgacacc	ccaactaact
154261	tgcttttgct	tttctagaga	caactatgca	cttaagaaag	gcaatcgaga	tctgcagtta
154321	atttacagtc	actgagatga	ctcaacatac	gttcatacta	gtagtatctt	cagcttctcc
154381	agtttttttt	ttttaagta	gaaacaaaat	gtccggcctg	acattttaaa	aacctgacct
154441	atgaggaact	tgaaatggtc	agttttacaa	attttccttc	ctttcctctc	tttcttctaa
154501	gtcatttact	gaattatgta	actgactcct	agaacacact	gcagacccca	tatggaataa
154561	gacagcacia	ctcctgcatg	catgatcact	gctgggctgc	aggaatgtgt	taagacacat
154621	gtctgtccct	cagtagtgta	gacacaatcc	ctgtcttgcc	ctttagaagt	ttataagatc
154681	cctgggcaca	cagaacttgt	gcatcaagtt	aaagactaaa	gggccagagt	ggggttgaca
154741	agagcaattt	cttaagagtc	tgaagaaagg	gagccagaaa	catggagaag	gcagtgaaga
154801	ctatttttcag	cagagagaag	agagaatgtt	attgagatga	aaatgtggat	ggcagattcc
154861	agtgcagggg	gtgcagatct	catagaaggt	gggtcaggga	tgtgggggtt	gaaaatggct
154921	aacagcgagc	tccattatgt	cacagcagag	atgacgcaag	gagctgtctc	ccagcagggtg
154981	agatgatgct	gggtaggcag	gaggtagaca	caggaagtgg	atttaggaac	ccatagcaac
155041	catgagggag	aatgaggggtg	gaacttaaat	aaggagcat	ttacgtagaa	aagagttggc
155101	agaatttaact	ccatgggaaa	cttagtgga	ctgaggacaa	cgtgtcaact	acaaagacca
155161	gaaagcaggg	ctagttagat	ggctgagtga	ggaaggggtg	ttgctctgac	ttcaatcttc
155221	aggagtcaca	ttccaggctc	tatctccaca	cgtgtgctat	ggcacgtcca	cacatagagc
155281	aaccaataa	ataaacataa	cattgaaaga	taccagaatg	catgctgtct	ttgaaaaccc
155341	tattcattgt	cttaagtata	agatgacagg	gccatttccc	aaaaccatac	atcttgtgga
155401	gacacaggtg	gggcaaaacc	aggtcaagtt	cagtggacag	caggtaccaa	atggacttat
155461	ggctatacct	ggtaaggcaa	gccatgaaga	tgatgagttc	tggtccctc	gttcttcggg
155521	aacctgaaat	ctggagaagg	gggagggggg	aggaggagga	ggaggagaag	gggaagaggt
155581	agtggtggct	actggtggac	agggaagaac	atctaggagg	aaagaagcta	cagaagttac

FIGURE 6LLL

155641	tgacggcagg	agaggggtcct	tccaggccat	ggaaacactg	ggcctcaaag	gacaggctgc
155701	tccagtctga	tgctgcatca	gaaacccaca	gtcaatatat	tgaaggtgga	aatctgaaaa
155761	gcacttattt	ttataattaa	atacttttat	gatagagaaa	aaagcaaaca	gagaaaaaaa
155821	agcaaaagca	tcagggtttca	cccaaacaca	gcaatgggtca	gtttgggttc	atctgagatg
155881	accaacaaat	gccaatatta	gagttacagt	ttttcaaggc	cataattgct	acatttaaaa
155941	catcaagagt	cacagactgt	cccaaacag	tcagagccct	catgacctgc	ctgtcccagg
156001	atctgagagc	tacagtgttc	tgcttctatt	tagagcatta	tgaatgctaa	atagaaatgt
156061	tcaaaatatt	ttacaaaatg	aaaagtagac	atcagtccac	tgcagggtcta	aggctgttct
156121	ccaactttta	aatacattag	ttcttttttt	tcctttcccc	tttttctttt	ctggagacaa
156181	ggtctcaggt	agcccaggct	ggcctagtat	tttatgtgtg	actgagaatg	accttgagct
156241	cccgattctc	ctgcctccat	ggaccaacga	gtgcagttct	ttccccctaa	gagtcacata
156301	gttgaaccag	gaaggatggc	tcatgcctgc	aatcccagca	ctcaaagggg	aaaggcagga
156361	gggctgtctt	gagttcgaag	ccagcagggg	ctataaagtg	agctccaaga	taggctgcgt
156421	tgcagaatca	caacacgtct	caaacaacaa	acgtagcaga	catatctaac	ccttaagcat
156481	gacaacgaca	catttgtatg	atacctgaat	aataagaagg	gggtgcatca	ttataattat
156541	tattattttta	cagttgtaaa	catgggaaag	tgctgagcag	ttcaatgagc	ttagggctac
156601	agtcactcaa	ctgcatgcta	gctcagatga	ggataatgca	gaaacgcctg	ccgggaggaa
156661	ggaaggagca	aacacttctg	ccactccgtg	aaatgtcact	caaataacaa	aacaaaccca
156721	ccgaccgacc	tctcaggata	aggaagtgtg	gcggagtggg	aacacactct	tgactgggtg
156781	gtgagggggc	ctgggattct	gtacctagca	tcacacacaa	aaactgcaaa	caaattcttt
156841	aagccatgct	tggtaaaaat	gactcatttt	gaacctagtg	tgaattggag	attatttttc
156901	aattaatgaa	gttttttctag	ttggaaggac	ttacaacaag	ggccactatc	ccaaaagccc
156961	ttagggactt	gtctaaatga	gtaaaaatat	tgtgcaatta	ggccaacaac	tgaaactaag
157021	tgcgtctgag	agcttaaaaag	tagtcgttct	caagtactag	ttcgaagagc	atcaaatcat
157081	ataaaaagggt	caaaggaatt	taagtgaact	gggttgactt	ttcaaggcac	tgaggtaatt
157141	acaaaatata	ctaaatagca	aatattaggc	ataccctagg	tttagacaaa	caaaaccacc
157201	ctaaaaccgc	cagatcatat	agacacacac	acacacacac	acactcattt	tctctctctc
157261	tctaacacac	acacacacaa	aacacattag	ggtaaataatg	tattagaaaa	acctttgcct
157321	aagatttcct	ttaaacagtg	ggtattatct	atTTTTgttt	ttttctttac	agaacattaa
157381	tttcttttgc	aaatgttttg	ggtacagaga	ttgcctgaca	agagtggcca	ccatgaagct
157441	tatggggcacg	tgagaggaga	ggtgaagaag	cctcaatctt	tctgagccca	tttcatctcc
157501	cctattattc	tccacgattt	tcaaaaagcca	ctctactaca	aacctgagaa	acacaggagg
157561	tcagattcac	aaatgaaatc	tctttgtctc	ccttctgtat	gcaccagca	tctgtctccac
157621	ctagctgacc	gttacagggg	cagggccagt	gttaacatgt	caagtgggca	gagggctctc
157681	tgcatctcct	agtacatttc	tggtacagg	tgaactaaat	gacaccaaag	aactgctctc
157741	aaacgtgcat	cccaaggtag	agctacaaag	gttcaatata	accccagtat	tttgagagat
157801	cttaaaaacgc	agtcaaagtt	aactgtcatg	tccatagcaa	ggaggaactc	actccttagg
157861	atacactggg	ctggtcttcc	agtgggcatt	tcagagagcc	ctgctttccc	atatcagctc
157921	catcctgtat	cctcaccgtt	gcttccaaca	gggaaccgtc	cacatctgac	tgcccaatca
157981	gatttcagca	ggtggcatgg	gggatccaga	aagcatttct	ctgcaccttt	taactctgaa

FIGURE 6MM

158041	ctgcatgcag	aacccgtggt	aagaaatgct	tctctgatcg	ctcctagcac	ttttagtggc
158101	catgttaaat	cagctaagta	agaatgactc	ttccatctgt	gttaagtggc	cttttaaagc
158161	taattcacac	tatctccaaa	taccctgaat	taccaagtct	gagggctgcc	tagattcctg
158221	cttghtaagca	atagaatgac	actgaggact	ctcggctctc	ttctctctcc	catatcctct
158281	ctggttcact	gagaacccaa	catcatctaa	acagaacaaa	aacatcagaa	ctgaaggaat
158341	cgccaaagta	tatacacgtg	actcccgtct	gaatgcattc	agatccgacc	agtgactcca
158401	agctttctgc	atgtttccca	tgagctattt	gccctgaatc	aactcctcac	cacaactctc
158461	gaaatgacat	ggacctctgc	tggtgcactt	attattcctt	ctctgatggg	gagtgggtat
158521	gactgaaaat	tttcgcgcaa	ccagcctcta	aacagaaatg	cagttttattc	tgagtactca
158581	aattcaaadc	tcagtaacac	agcaattaca	ttttaaaata	aattctctcc	atgttcttgc
158641	ttctaagaag	agggtttagt	gggatatgaa	gagtctaadc	ctaggcaacc	atatggccag
158701	gccaaattata	aaccccatat	atgttcacac	atcaagcagg	gcaaactgct	ctgggaacaa
158761	cccttaatat	tttattgcct	gcccagggtgc	ctgagcactt	ctgagataca	cctgtcacag
158821	gaaaatacag	cacttccttc	catctttacc	ccatagttgc	cagacaattg	ggcagagcta
158881	aagtgggtaa	tggtgcagtc	aacacttccc	taaaacattt	atacatgcca	ctgataaaca
158941	atagaaattt	aaaggagata	caaattgtact	ccccaaaacc	taaatcttcc	ttccacggag
159001	gcctaaaaac	ttaaaaatct	tcattctact	ggcacagaag	aaggaatata	aattccaagg
159061	ggagcctaga	tttatggcct	aaatatgtct	tcctctagaa	tatttaatac	acttacgctt
159121	tagtcattcc	atacattttg	aaaatactct	agcacgataa	attacagtag	ctgcatcttt
159181	catggttggt	cacataaata	tcatttggct	ttcaggaaac	caattacgga	gcggtaaatc
159241	atttttacat	tgcttttcaa	aatctttaat	ttaacttgca	acacggacag	ggcacacaca
159301	ggctcccagg	aagaacgcag	ctcacacatt	gtatcattcc	ctcttgctcc	agtttagcaa
159361	caaccctga	gtaagccaca	acaatatatt	catgttctaa	aatatttggg	ttatatctat
159421	atatttcaca	caggtattag	gtcagcaag	tatttcctaa	cctcctgtag	tatttagttt
159481	tcaagacttg	gggtaggatt	gggaccacat	tgatttcagg	gtgctgactg	tacttctgtc
159541	accatcagct	agtttaagga	caatgactgt	cctggcagac	accgcaacaa	cagagcctct
159601	atggtgttct	tgagaaatca	agaccatcat	ctcattggaa	aggcgggtgg	aaacaagggt
159661	cagggccatt	gaggccacac	aatcaacaac	aggatttgct	ccagcctcag	agacacagag
159721	tggactggca	tactatatca	atgttggaatc	ccctcggcta	tgacaagttt	gtgaaatgaa
159781	agaacaaaac	aatacagtac	aagatcaagt	tttagtagag	agaatgcaga	caaccacaac
159841	cgagtactta	gggagaaaaa	aaaaaaaccc	agctcttagc	tggggagtga	cagtcaaggg
159901	gggaaatcac	gcgaagggaat	ttcttttcagg	tgcaagaagg	catgagagtg	ggagacaagg
159961	attgagcatc	ttggcagaag	gatcagaaac	ccagtccaag	gtctacactt	ccgtggagca
160021	gccgcagaca	agcttaggta	tccggtgggg	ataacctaca	gttaagacat	cacattacag
160081	acactaggga	gccattgtga	attacagcca	acaggtgaga	atcataactt	agcggggcgg
160141	acacaacaac	caagccgtga	tctagagcag	gaagcggggg	atagacagaa	agacagggtg
160201	taatggagga	gaccaagcag	agggtgcat	taaggcagag	gcttctgtgc	tgaccaagtg
160261	actaacacaa	agggcccttg	cagaagacca	gagatgtcag	gggggagaa	tccttctgag
160321	ggggcctagt	tacactagcc	acttgatatt	caccgggaag	gaggcagaga	agctaggagg
160381	gtgggcacaa	aggcagtggc	tctcttctac	ctgaggagag	ctggcagctc	tatcaatacg

FIGURE 6NNN

160441	gactactcct	aaatgggctg	cagtcagccc	agaaaaaaaa	aaaatcactc	aatactctca
160501	ggttacctac	cctggctccc	aaagctgggt	atgcaagaaa	tattttgttg	ttgttttgct
160561	tttaaaagga	gacaactgat	gcttggttta	gtattgtttg	aactacatca	ctcacaaatg
160621	agagactgat	aaagagattg	acaagtctga	ctctagaagc	aaacacttcc	agtctgctct
160681	catctgccct	ccccacttc	ctccattctc	ctcggcctct	accccaaat	atgcttgaaa
160741	atagtaggta	actgagtttg	ttttgtacgg	tggttgctct	gttatttcaa	gcagggtggt
160801	ccagagagaa	aaaaacattt	tctggaaaga	ttttaactac	tggatcataa	acaagcgtgt
160861	ggtggccacg	cagcaatctt	tgtaataacg	aatccaagac	gtcctgggtg	tgaagccag
160921	tgaatgtaat	gttagctgaa	aagcaccgcc	tgacacacct	ggaaatgtgc	cacggggccag
160981	ctttgtagac	tgcgacttca	aagggaaact	ggagtctact	tccgcttttc	agtgagttag
161041	aaatgatttt	ggctgtattg	gtagggcaga	accagaaaat	aagttttgaa	tttgtcataa
161101	taattttacaa	aaaccaacca	acttggttaag	atgcatcctc	caagcacaac	taagctggct
161161	atagaggcta	ttctgcattc	tgcactctgg	cccctggact	gctcaggctt	agggtgaggg
161221	aagaaacatg	acttaagcca	ttacccttat	tctgtgggca	tttgaagtgg	ctgccaggga
161281	cgtgacacca	actgttccaa	ttgggtcaca	atgacatcac	tttattattc	aactctgttt
161341	gcatttcagt	ctcctccttt	ttcgggggac	ttgaggccaa	tcctggccaa	gtcacttttag
161401	aagagaaaaga	agccagtctt	aggtagtcat	gaagtgccaa	gtgtcttttg	tgtctcctag
161461	cctagtttgt	aagccgggaa	ctgggtgacat	aaagggctct	gtcaacagcg	ccgggtgtg
161521	ctgcttcctc	cgcagcggga	gagggagatt	gggaaccag	tagaagggtg	cgggtcggcc
161581	ttgggtaggt	cccaactgac	caagttcaat	aaaatccctg	agagtttggt	ttcaattggg
161641	taagaaaact	ataaaatgga	aaccgcatgc	gagcttacgc	tggaacctca	tttaaagcac
161701	ttgtacttcc	aaaaaaaaaa	aaaaaaatgc	agaaaacatt	tctaatttag	tcaagcgcac
161761	tcttctttcc	tcgagcaatt	agtcttaatt	catgtcacct	aactactatt	tctgcattaa
161821	gcaacgtgac	ctctagaacc	tacagtaacc	ccctttctga	tggtgaaagt	caattattct
161881	gatttttttc	atcttcacac	aataagttac	cagagaataa	actaacttca	aaaaagcatt
161941	acagtgtcat	gtgtgttcgc	ctgttgatat	gtgcacacat	tcatggcacc	tgtgggtctg
162001	tatccagctc	ttctactgtg	cctgtctctc	aattttgcag	ctcaacctag	agatcaccaa
162061	gtggccagcg	agctccatgg	atcagcccgt	ttctgccctc	ctctgtacta	agattacacg
162121	caatcatgct	gagcctctaa	gaacatggcc	gctcatggtc	tgaactcgga	tcctccacct
162181	agcatggcaa	acatgttagg	aacggggcca	tttctcaac	acaaaggaaa	aaggcttcct
162241	catgggagag	aatgactgga	tgggcgagta	gacagatgaa	aatggacttt	tcacaccaac
162301	tggttagaga	ccctgttgct	tccaggcaca	aagcacacca	gtttctagta	tcagtgggtt
162361	gaaatgcatg	tttaagctct	ctcctcctta	cttggctctt	gacaggaaac	ttttatgggt
162421	gaactttatt	ctgtagaaat	gcagtggcat	taaccaagca	cacaaagcca	actcaagcct
162481	aaagtgtgcc	catgactcca	accctacact	cattgggtct	tgccagaggc	aacacgaaac
162541	agtgtataga	ctcagaactc	tgcccaggcc	tgtgaggcag	ggccagggct	acacaccttg
162601	caaacacaca	gcaggctctg	cccaaggagc	gttcactagg	taactatcag	ggtggctcaa
162661	gggctgtacg	acagacagac	cctgcacagg	cagggaaagt	ttcctggaga	cctaccatct
162721	attttcttgt	aatctcaact	gatgtgttct	gccaagtcaa	ctattattta	tcatttataa
162781	agcagctcct	attggcagca	tactctgcat	atgtttcagc	acttcataaa	ccctccacgg

FIGURE 6000

```

162841 tataatcgct tgtggaggag actgggttgc ctggagctgg aatacagacc cacacgcatg
162901 tgagcccgtg taaatgcaca catgaccgtt ccctaccgct ctttcacgag tcatgtcttg
162961 gctctgtagg ccgagtatct ataactaaag ctctctacag gtgtcaaatc aagcaatctt
163021 ggtcctctca gatgtcagct aatggcttag agcccccccc ccctaacagt tctatttgca
163081 ttgctaacca aggctatcca ccttagtatc atcatcagtg caagagaagc caaactgcac
163141 acgaagacct ggagagcact tcagagcaca catccgacct cttcctcatc cgagtacctt
163201 gcaagccagt tttccttcct ctctgtcttc cagaagaagt tccaactcca cctcggagca
163261 aagcagcagc tgcagtgact agcagtgact atgcctttgt gactgcgtat cactcatcca
163321 attcacagac tacttagcat cgacttgtat acactttgcc caagaataaa tatttatatt
163381 cccgaaacac agtcgatcga gagcagctga tacagggttg gagatgacag aggcagcaaa
163441 cacaacaag taagacctcc aggagtgtga gggacagggc tagagacaaa gtaaacagag
163501 gccacaagat cctaggcgct aggtgggggc tactggtacg taagggtgc tggaaagaag
163561 agtcctccgg ggactggctc ccacaaaggc tgcccaatct caagtggtea gctctgggcg
163621 cttgtctaga tggcaatgct gcgtggactc agtgggttat gtatgcgtgt gtacatgcac
163681 atgctaggat aataattaaa aataagaggt catgagtttg ggaggttggg gtttgctcat
163741 gggagcaact ggaagtgggg ggcagagaaa gggctgggag tgacacaggt gtagttcttg
163801 tgtatggtct aaagattaaa ttagagttag ggaaaaaaaa accccacagg aattgggaag
163861 agtgattccc aagccactga cacagcacag cactgcttgc ctgtggaggt gctcctgtgc
163921 catcctccct aatctttatg ttgcacatct taagagtggc ctgtttgtgt atcctctcat
163981 gcatgtatct cctcagcggt ctcatccacg aatgcttaca ggtgacgtta gcatcagcag
164041 ttggagaaca agatacactg gaaagaaaac attgtaccct gatttgcacc gggaagagga
164101 gaaagggaac acgctaagca tataaacatg ttaacggtca agtagagtcc aaatcagatc
164161 ttgccactct tcaaactgaa ggtctgtgat acttaaaagg gggaaaaaac ccattgaaat
164221 gcagaaggca gagaccatca ctcaaagata tcatcgctt ggaggtcagt ttatatttgg
164281 aacagtgact tgggattggc caaccatcac tcatgccatt aaagtaatat ttcagtttca
164341 actgttttac atgcatttag catgtagacg tattcaattt atagttgtaa acgggtctaca
164401 agtgtaagaa gccgataccc aagcttcgaa tttgtaggtg ttttaagtcta agtcccaatt
164461 cataccggca ctacaggtca gcaagtgtat ggtttttaac ttttaagagg cgctcaataa
164521 actcggatag aaaatctggg agcaccaggc ctgtttgtga agctactttc aaggcgatga
164581 tcctcatcgc caggaggaag ttggtttata cccatcatag ttcctttaac acaagcaatg
164641 cagaatggcc ttcacaagtg tctcctctaa aatgactgtt taaattgtgt tgtttcaaaa
164701 agaggacatc cacgagccgc atgtttccat tatcccttgg aactggagct acaggcagtc
164761 aagggcttcc ttacttgggt gctgggacac aactctggcc ctcatggtag aacagcaagc
164821 ccagcaacct ttctagtccc aggattaggt cttaactttc gtggtctctt gatggcacac
164881 agaaattgtc tagaagtcag aggctatgta cgggtggatg atgtacacc agtcgccctc
164941 caagcaagcc aaatatgaaa gcaatttttt ttttcaaaaa taaaatagca ccacactgct
165001 ctcccaccag gcgtgtagag attttcccca acaaaaatag acacacatca tatctatgat
165061 tgcttctaaa tgaagaagtc tttaaaagtt ttaacttctt aagggccaaa tatcaatgga
165121 tatattccat ataaataaaa attcatcaga tttgtcttca cctattttgg ttgctgtaac
165181 caaatccatc aaccaaccaa ctaaccaacc aatcaaccaa ccaaccaacc aaccaaccaa

```

FIGURE 6PPP

165241	ccaaccaacc	aaccaggtag	tctctgtctt	gttccagtcc	cattttctctg	gtgcacaaaa
165301	ggactgattt	tacttggttag	aagggtatcg	ggcaattctc	tgtgtctctc	ttacaagggg
165361	actaagcatt	ctcaggaggg	ttcaatcttt	atggcccaat	cactccccct	cgccccaaaa
165421	caatgtcttg	atgaccttcc	aacacagtca	tggcagatta	tggctctgtag	gctttactgg
165481	tgccaagggc	tcctgagaat	acaacaccaa	agtgatctca	tcccaagaag	gatgcttcag
165541	acagacagtc	ccacatgctt	tcctctactc	ctggctcatc	ccctgtattc	catacatcta
165601	tatcccccg	ccctcttagc	tctcctctga	gtggcaaaga	ggcatctccg	acttaacgag
165661	atgcaaggca	gagttctagc	tccatctgcc	atccccacca	cacacctccc	aaacaaacct
165721	actccccctc	tcctgccagc	tcgggaacgg	gcaacttcac	ttctcgtttc	atctaagcca
165781	aatgcctgaa	tcctccttta	tcctcctttg	ccccacctgc	aagatttcac	aagtccctaa
165841	atattcctga	atctatctac	tcttagttac	tgttaactgat	gggtgcagtt	ctcaacaagg
165901	aactcttctg	tccccggcact	acctgcaccc	agccatgtct	agatacattt	ttcaattgtg
165961	tctgcttaga	caaggggtag	atgtaccacc	agtatctagc	aggaagatgc	atagacaagg
166021	ggtagatgta	ccaccagtat	ctagcaggaa	gaggccaggg	atattgatag	acattctata
166081	atgcacacag	cagctcctat	catcaaagac	tgtccagctc	aaaatgtcaa	tggcattgag
166141	aaactgagct	ctattccaag	ccagtagaat	ctctccaaaa	aaaccttctc	aaaacaactt
166201	cctaactggt	ttccctgatt	tttcaactct	aattgctctg	ctcgatgaaa	acaactaaag
166261	ttatcagcag	aaatacagag	tgtgaccac	tagagtgtct	tgtcttgtgt	catggcctgt
166321	agggccttgc	ctactccact	ggcccccggc	cagctcctac	attctcatcc	caccaaattc
166381	ctacgtcaga	gccctaagcc	ctcaggtgac	tctgctagag	acagactcta	cggtagtaac
166441	tgaagggttaa	gtgagcccg	aaggaggaac	tgagccttgt	aatgggttgt	gccttcatga
166501	aagacacacg	gaagcttgct	ctctcatcca	ctctgctgtg	aagcttgctc	tcccatccac
166561	tctgctgtga	gaagatggcc	atccacacag	aaaaaggacc	tactggaat	ttgaccttgc
166621	tggaaactctg	atcttggcct	catagttcta	ggactttgag	aaaagaaacg	tcagcagctt
166681	aagccaccca	ggctgtggtg	ctttgttgtg	aaagcttgga	ctaatacatt	caaccttgct
166741	accttgccaa	gttccagttc	actggccatc	agtcacttta	caccacagcc	cttgccctcc
166801	ctcttctgaa	ctgccattag	ctgaccctta	ataaccctta	gtcaaaatgc	cacctctccc
166861	aggaggggact	gtgttactcc	atccttctctg	gattttgagg	acagccccat	ggttggcatt
166921	aaccaagctg	cctaccctct	ttgcttactg	gtctccttga	cccagtgtag	aaacctctca
166981	gtcttgcccc	ttgtcgaatc	aggataagat	aatctgtgtg	gcttatatct	cttaaactca
167041	aaacaaggaa	aggtaggggg	tctgtgaaca	tgctttgccc	catgaccag	ttccctctgc
167101	cgcttctcca	aagagagcta	ccatacttat	gcctacctta	gtttcccaag	agcccatcca
167161	gggcaggagg	gaatcattac	atgtaacatc	tagaatgagt	acttccttat	attctttcac
167221	tttaggggagc	agcaaagggt	caaggttacg	gtaaagtaca	ggtagggggg	catcacctg
167281	atatgatgaa	gcaccaagga	actccccaat	gttaactatc	tagccacaga	gcaggtaagg
167341	gtatgctcca	gttagtttta	cgagggtcaac	tctgaacaga	ggaaacaaaa	gcaagcagta
167401	aaggactatg	aggcacgtgg	gtttgtgtctg	tgtacagccg	agcagtcaca	gatgcctcac
167461	taaggagggtg	gcatggggac	taagagtgc	tggagttagc	catgggaaat	tcaggcaaaa
167521	agcaagggaag	gtctctctga	actggtgagg	aacagcagtc	gtcagtcagt	attactgtcc
167581	gttattttctc	tacactggcc	ccaggcaggt	gcttttgaat	gactggctgt	ttgcaaaggg

FIGURE 6QQQ

167641	aagtcagat	acagatggcc	gaatgagggg	ccacgagcct	gtgcaggaca	tacagataat
167701	ggaacaggaa	ccttgcaatg	ctgagaccta	ctacgtgacg	ggtgcttaac	agcttttgag
167761	gttaacggtg	ggaattttctg	agagaatccc	aaagagagct	agctggttgc	ttgaggccaa
167821	caagggcaag	gcttataagt	caggggcacc	ccagaaagga	ggcacacccc	agaaaggagg
167881	cagcttctaa	gaaagaggaa	aagagagaaa	gcaggcaagc	ctgagaaatc	aggcttgggt
167941	ggcctgaaaa	ggcagaccat	gatgtgtgtg	gtgggaaagc	agggcaggac	tcctcctcct
168001	tctggaggaa	tacatgtgct	ggcactggga	catccagctt	caaccccagg	agcccaggcc
168061	cagcatgacc	tcctaacgca	ctgttttagta	gacagggtag	agcctttaag	aatggtggct
168121	cgatggaggc	cctgtcccat	cctccaagat	gtctaaaggg	ggtgggactg	gctaagtccc
168181	tcctttctctt	cctcaccccc	tcacatcca	acctcctcca	aaaacatcaa	atattttctt
168241	ccataaataa	ttgcaacagg	atgccattgc	tttcctcaaa	gaaacaatgg	cctgattgtg
168301	ccctgtccga	cacggggcca	gccccagcac	acacaaaagg	tggctttcag	aagccctgct
168361	gtagagaatg	ggggtacacc	tcctttcttc	tcttctgtac	caagtccact	gccctccacc
168421	aggaaaggac	atcaggaagg	ggctgtctacc	acaggaataa	ttcccatcag	aggacagcta
168481	tcattcacct	gccttttagat	tgcccttttg	ccacctctag	aaagtctctc	gttctggtga
168541	acagaagagc	acctattggc	tctaaaatcc	aacacacaca	cacatacagt	tttaggctgg
168601	agatatctat	aattttttttt	tctaattttt	aaacttattt	gaaattgtca	ttaatttaact
168661	tttaaaatat	ttgaaatcct	agcattcagg	aggcagaggc	tggacaattg	ccccacattt
168721	gaggccagtc	tggtatacac	tgcaagttta	ggtcagccag	gcctatgtag	tgagctcctg
168781	tctcaaaaaa	aaaatacata	agtaaataaa	aattataaat	agataataaa	atagtcccat
168841	tttacgtgta	catcttcagt	ttcacaattt	gagataaagt	gaatacagat	attttcatte
168901	agtatctgtg	gtagtgccaa	cactggatgc	tcacacaggc	tcatgcatgt	gaacatctgg
168961	tccccgtggc	tggcacagtt	tgggaagggt	atggaacctt	taggaggtgg	agtcttgctg
169021	gaagaagtga	gctaagccac	tgggtgcaga	ctcggagggt	gatagctggg	ccccacttcc
169081	tgtccgctct	cctgtttctt	caccccactc	cacttccctaa	gtacaggaag	cgcttcatct
169141	agcttcctgc	ccctgccacc	acagcatccc	agattaattc	catggaaact	ctaagtcaaa
169201	ataagccctt	tattacttaa	gttggtttttg	taacactaat	caagtgtgtt	tcttggttaa
169261	aaaggacagg	ctggactaaa	ggattcaatt	tcagcactta	aggggctgga	gagatgagag
169321	agcctgctgc	tggggctgtg	ggctgggata	agttgaggcc	cgagtttagt	tctcagcacc
169381	catgtttggt	tcccaacatt	ccatgttcac	cccaggcctc	caagggcctc	cacacacata
169441	gatataccca	ccctgagata	ttcgcattga	tataaataaa	cataaaataa	atattttaaag
169501	aacccatcac	tttgcagcca	tggcttgaca	aacaggctct	ttggtgtctt	cctcacatag
169561	gtgcaagagg	aactcaggca	ggggtgttga	gtttttggat	tttgcactta	tttattttatt
169621	tattggtggt	actctctgtt	tattggggga	gttggtggtg	gttgccattt	gtaacatttc
169681	cattaaagat	gttaaaaggc	tgccttccca	ttttcaaaga	ctcagactga	tcactctccc
169741	agccagaggg	ttctgtcagc	tactaaaggg	ttcctttccc	ttctatttta	tggcctttct
169801	cccatccact	tctgctttgt	tcttttaatt	aaaatgaaat	gtaggccctc	catggctgag
169861	atgctaataa	ggcccctgaa	agtcactctgt	gagcacatcc	actcttggtt	aaagagccat
169921	gtaaacagac	cacagacggc	tacagagagc	aacgctgcac	agggcaagga	aaagggaatc
169981	tggctgcacc	gtacagtgtc	acgttgaagt	gatttatcac	ttatgccagg	aggaggaact

FIGURE 6RRR

```

170041 gaaacacaaa cgcaatttca agtttaagca tggcgtctcc acaggatctt ccatagcaag
170101 cactctgcac tcgggggctc cctgtcagga aactcctgga caacggttgg tttgccgtct
170161 gatccacttc agttacctca ccaaacattc aagagggtact ttctgatgtg tgtgggcttt
170221 agcgctaggt tgatacaaaa cagtacctgg atctgtactg gaagtcaact atatttgctg
170281 ccaaattccat tgtaactggc tctgcatgga gccatccgtg tgagagaggc tgatgtgtct
170341 gccaccactc tgcagacact ggaaacagcg caggaccaat ctgtatccat cgttccctacc
170401 tgtttctcag tgggtaacat tctcaaagca ttttcagatg aagaatttag tcagacagac
170461 agacagatgg agacacggat cactggaaga ctgctgtatg gggccacatg gggaaacact
170521 gggttagtca ggaagacacg gcggtttcta cagggaaagt ctgggtgtcc ctttggagtt
170581 cttgtgtgag aaagttgtcc ccaagggtatc agtgctggga gatacaagtt ttttgggttt
170641 ttttgtttgt ttgtttgctt gtttgtttgt ttgtttcaag acagggtttc tctgtgtagc
170701 tctggctgtc ctggaactca ctttgtagac caggctggcc tcgaactcag aaatccgcct
170761 gtctctgcct cctgagtgtc gggattaaag gcgtgcgcca ccacgccag gtgggagata
170821 caagttttaa gaggtgggccc tgggtgatagg ttcttaggcc actgggtacc ctgtcctcag
170881 agattaaggt aattctcaca agagggctag agaaacgggc caagtgtgac ctctctccac
170941 atctgcttct tatgtttact tgctctcagg ttctctgcac tgactcgagc aagagcaacc
171001 cttaccatag ctgcactatg atgtttggac ttcaaaaacca aactctggac attaactaag
171061 atttctcttt ttaaaatcag taatacactg ttgactaaca atgaatgaat gaagcagagt
171121 aagtaggctg aggatggact ggttcaagtt atcttggcag gcagtgaagt tgggtagtgt
171181 acggcttccc tggcatgtgg ccctagggag accaggacag aagaatattg acgcagagtg
171241 tgagaggcca atcaaggaag tgtgggggct gagatatgtg cttctttact acctaggaat
171301 ctacgagaat ctcttcaggc tcagtcgagg ccccccacac ggcaagcctg tctaagtaca
171361 ggaaacaggc aagattaata tgggaatagt gcgcaaacca attagctcaa aaatttccac
171421 aaccccatgt attagccctc tgctcagctc agggagataa tgagaacaca taacggaagc
171481 tcccagttca ccaatgcaac tggggagcgg ggggggatgg gtacctcaac cactcttaat
171541 gagtctgtag actaagataa cagaatggca gtcttccatc aacatgaggt aaagctagca
171601 tggcacctca gcctttcaaa gttactgttc actgaaatgt tattagaaaa attgccaat
171661 gtgataaagc ctatggatca aacactactc ccattgcaag gaacattcat aaacagaaag
171721 ctgttgctcag tccccgaaac ttaaaactgt tagagcagag aaaacctgga agaggggaagc
171781 gccataatac ggatgagaaa acagggctag gggctcgtaa atggcagatc aggaaggaat
171841 cccatccgcc ttggagttgg tgatcttgta atgttcagag aatggactca tttcaactca
171901 caggttcggg gtgaccacg tgcttgctga agcaccgtgc ttactgtatg gtgctacaca
171961 agtgaggtct ctcataagct gcagagacac agaaaagtct caagggacag gtgggtgcat
172021 gtgtccaaga cctggctcag cagtttaatac gtccagggtg tggcttgctc tctgcttcat
172081 tagtgtgttg ccagcgacta ggaatgtgac ggctaccacc ttgctgtttg gactcatttc
172141 atggggtaac tgcagcaggc acaggggaat agctaagaca gaccctgggt gagggaggca
172201 gctcatcttc aatgcccgga gagcacaacc tatctgatct gatatactct ccagtttaca
172261 aactactgac aatcacatca agtgaagggc agctgcagcc acagctctcc cttgttcaca
172321 gtttgctttc cttggttcta gttacctgaa ggcaactatg acataacaat attaaatgga
172381 aaattacaga aataaagtag ttccttggcc tcaagttgcc tgccactgga agttacagga

```

FIGURE 6SSS

```

172441 agccatcttg ttgtcctgct ctgtaagggg cctccctttc tgcaacggat ccaggctgta
172501 tacccaacca tcggctagcg acgtcataga gatctgagta gaacaagtgc tgttggtcaa
172561 gtacccttga ctttacttaa cagtgacccc caaacgggaa aaagagtagt gttggcaact
172621 tattacagcc aaaaacatgt tattacaatg tatttttatg actgctgtat tgatactggt
172681 aattgctggg tataattaag cttcgttata gatacgatt tataggaatt agcagcatac
172741 atcaggtttg gtgggtattta tggtttcagg aatctactac agatctttga aagtatctcc
172801 ctcacaggga gagagactac tgtaccattg ctcttcaatg gtgactccta atactggcat
172861 atagacagct ctgctgacct tttagaagtg ccagagaaca ggcactctgg acacagcgct
172921 gctcttgccc tcgagggatc tgcaagaagg aatggaggga aggatatgtc tctggggacc
172981 agcttctcct ttgaacatgc aggaactaat gagacgcttt ttgaaggagt ccagggtgagt
173041 gacacctatt aaagggtgctt agttaatgct catccccata aacgcccatt acggcgacag
173101 gttcccacta ctcagccgga acgtttgagc tctagatgct cctctgaaga aatggctgaa
173161 aaatcaggga gagatgctaa acccaaacac agtagcagtg ctggcaggag atgagccagg
173221 ctggtgagct gttcgtaaac cagctgtccc cgccccaaag actggagagt acagagaatt
173281 ccatgcacc agggtcgtct taagacatga acatgctttc agagctgcat ccctaagaaa
173341 ctctacaaa cctgctccag acctgacccc tgcaggctct gtctcacccc tgcccttcca
173401 ctcagctgct cctgagttac agcctggcta aaatagcaat gctacatttt ctgccatttg
173461 gggggccactg aggcaaata tcatgttgaa ggggtaactg gctattcact caaacctctg
173521 cattcctcag tgagaggaca gtctcagagg atcccaccag gatgtgctgg ctctgcatgg
173581 tgggtgtcag aactacattc gatttgaggg taccatatgg tgtttgcggg gctggaaccc
173641 tgcttgtggg tattgaaaat cacgtactgg gagtcaggag cgttgtgagt acaaacattt
173701 cagagtgttg agagtgttg gtggggggtt aggaacaagg caggctctga cttaccagaa
173761 ctgcagcttt tattctgaag tttcttttaa gaaccaagat taggggctgg agagatggct
173821 cagaggttaa gagcacccga ctgctcttcc gaaggctctg agttcaaate ccagcaacca
173881 catggtggct cacaaccatc tghtaatgaga tctgactccc tcttctgggg tgtctgaaga
173941 cagctacggc gtacttacat agaataaata aataaataaa tctttaaaaa aagaaaaaaa
174001 ggaaccaaga ttaggcattt gattcattaa acaggacagg ggatcaaata cctccgttgg
174061 gctctcgaga acatgacagg gtgggggtgtg cagataagaa ggctctagct agggtagctg
174121 gaatccctct ttcaacgatg gcgaagcact ggcacccgta gaaagaagga atgatacgaa
174181 tcagcccact attctgaact atgtccctgc ccagacacag aggcacatgc tgggcctgca
174241 gcaaatagcc ctggagccac actcgtgggt ggcgtgcaga ggaggaacca acccatcaga
174301 actctgtccg tgtgggtgtg tgtaggtgcc tgtgggtgaag gtcagaggtc aactcagggtg
174361 tccaatccag gctccttttg aacttctagc ttagtttgtc aacactggca gctgaattgg
174421 gtttgtttgt ttgttttttg agatgtgac ttagatctgca gcccaggctg ggcttgaatt
174481 c

```

FIGURE 6TTT

1 aaagggaatt tcacccaaa taaaaggaat gaagtctggc tccggaggag ggtccccgac
exon 1

61 ctgctgtgg gggctcctgt ttttccgc cgcgctctcg ctctggccga cgagtggaga
121 a|atctgcggg cggggcattg acatccgcaa cgactaccag cagctgaagc gcctggagaa
exon 2 Primer 1

181 ctgcacggtg atcgagggt accctccat cctgctcacc tccaaggctg aggactaccg
241 cagctaccgc ttccaagc tcacggctat caccgagtag ctgctgctgt tccgtgtggc
301 tggccttgag agccttggcg acccttccc caatctcacg gtcacccg gctggaagct
361 cttctacaac tacgccctgg tcattctga gatgaccaac ctcaaggaca tggggtcta
421 caacctgagg aatattacc ggggggcat caggatcgag aagaatgcYg accctgtcta
SNP469

481 cctctctacg gtggactgg cctgatcct ggatgccgtg tccaataact acatcgtggg
541 caacaagccc cctaaggaat gcggggactt gtgccaggg acgctggagg agaagccgct
601 gtgtgagaag acgaccatca acaacgagta caactatcg tgctggacca cgaaccgctg
Primer 2

661 ccagaaa|atg tccccgagcg tgtgcgggaa gcgggcgtgc acagagaacc acgagtgtcg
exon 3 Primer 3

721 ccaccccgag tgctgggca gctgcagcg acccgacaac gacacRgcct gtgtggcctg
SNP766

781 ccgccactac tactacgccc gagtctgctg gccagctgc ccaccaaca cctaccgctt
841 cgagggctgg cgctgcgtgg accgcgactt ttgcgcaac atccccagt cggagagcag
901 tgactccgag ggctttgtga tccatgatg Sgagtgcag caggagtgc cttcaggctt
SNP931 Primer 4

961 catccgcaat ggcagccaga gc|atgtactg tatcccttgc gaaggccctt gccccaaagt
exon 4

1021 ctgtgaggaa gagaagaaga caaagaccat tgattctgtc acttctgtc agatgtcca
1081 aggatgcacc atctcaagg gcaacctgct cattaacatc cgacgcggc|a acaacattgc
exon 5

1141 ctgggagcta gagaacttca tggggctcat cgagtggtg acgggctacg tgaagatccg
1201 ccactcccat gccttggct cctgtcctt cctgaaaaat cttcgccaga tctagggga
1261 ggagcagctg gagggg|aatt actccttcta cgtccttgac aaccagaact tgcagcagct
exon 6

1321 gtgggactgg gaccatgca acctgacct caaagctggg aaaatgtact ttgcttcaa
1381 tccaaattg tgtgtccg agattaccg catggaggaa gtgacaggga ctaaaggcg
1441 ccagagcaaa ggggacataa acaccaggaa caatggagag agagcctcc|t gtgaaagtga
exon 7 Primer 5

1501 cgctctKcac ttcacctca ccaccagtg gaagaaccgc atcatcatca cctggcaccg
SNP1507

1561 ataccggccc cctgactaca gggacctcat cagcttact gtctactaca aggaagcg|cc
Primer 6 exon 8

1621 ctttaaaac gtcacggagt atgatgggca ggatgcctgt ggctccaaca gctggaacat
Primer 9

1681 ggtggacgtg gacctccct ccaataagga cgtcagcct ggcattctac tgcattggct
1741 gaagccctgg acacagtacg cYgtttacgt cRaggccgtg accctacca tgggtggagaa
Primer 7 SNP1762 SNP1772

FIGURE 7A

1801 tgaccacatc cgtggggcca agagtgagat cttgtacatt cgcaccaatg cttca|gttcc
Primer 8 exon 9

1861 ttccattccc ctggatgtcc tctcagcatc aaactcctct tctcagctga tagtgaagt
1921 gaacccgccc tcctgceca atggcaacct gagctactac atcgtgcggt ggcagcgcca
1981 gcctcaggac agctatctct accggcataa ttactgtcc aaa|
Primer 10

ggtgagg gggacatggg acacctgtgg ctctgactcc cgagccctat gctacgcatt cagcatcagg ctgctgtgt
Intron 9
gtgcagcctt ggccatggtc acaggtgcta accgYggtgt cYtcccgta cggttgggta acttggctct
SNP9i112 SNP9i119

ccttgggctg ctcttttcca agca
|gacaaaa tccccatcag
exon 10

2041 gaagtatgct gatggcacca ttgatgtcga ggaggctaca gagaacccca agactgaagt
2101 gtgtggcggg gagaaggac catgtgtgc ttgccccaaa acagaagctg agaagcaggc
2161 agagaaggag gaggtgagt accgcaaggt cttcgagaac ttctgcaca atgccatctt
Primer 11

2221 tgtgcccaga| cctgaacgga agcggaggga ggtcatgcag gtcgcaaYa ccaccatgc
exon 11 Primer 12 SNP2269

2281 cagccggagc agaaacacca cagtgttga cacctacaat gtcacggacc cagaggagct
Primer 13

2341 tgagacagag taccctttt ttgagagcag agtggataac aaggagagaa ctgtcatttc
2401 caacctccgg cttttactt tgtaccgaat tgacatccac agctgtaacc atgaggctga
2461 gaagctgggc tgcagtgcct ccaactttgt ctttgcaaga accatgcctg ca|GGTAT
Intron 11

GGTGTGATCCAGTCACTCCATTCCCTAATTCACCTCACAGCCTTGATTTGTAC
AGATGGAGGCTGACACCCAGGGCAATGACCCTTACTCTCAGTCCTGCTTA
TTAAAGAATGAGTGGTCTTTTGTAGGCAGCTCACTAGTCCAGCAGCCCAG
GAATGGAGTTCATTCATAGCAACCCCACTCTCTCCCCAGTCTCTCCATACA
GAGTGCTTGAGAGCAGGGAACCTCAATTCAGGGTCTACACTTTCCCTCTCCT
TGGTTCATGTTGTGCATTGCCGTGGGCCCCTTTTTTTTGGCCATTTATGCAAA
GGGAAATTTGCCAGGTCTCTCCTGAGTTCTCAGAGATT
TGTGAAATCCTCAGTTGGCTGCCCTGAATCAAAGTGAGTGTAGCTCCTGA
AGGTCAGCTCCAGAGCAGCTTCGCGTCCTGCTTGTTGGTCCTCACCTTC
CTCTTCTTTTAGAAGCTACCTGTGGCCCAGACAGCAAGCCATC(N)_nAAAAA
AAAAAAAGAAACCTACTGT
GTATGTGAGGTCAGGTCAGGAGAAATGAACGCAGGTACCGTCTGCAGTCC
TGTATGCATGGTTGAAGAGGGTATTCTTAGGTTTAA
TCCAGCATTTTTTGTCTTTTTTGGGGGACTTGAGTCTAACTTCATTGCTTGT
TTCAATTGTTGCACA|gaaggagc
exon 12

2521 agatgacatt cctgggccag tgacctggga gccacggcct gagaactcca tctttttaa
2581 gtggccagaa cctgagaatc ctaatggatt gattctaag tatgaaataa aatacgatc
2641 acaagtcgag| gatcagcggg aatgtgtgc cagacaggag tacaggaagt atggaggggc
exon 13

2701 caagctgaac aggtcaacc cggggaacta cagggcccg attcaggcca cctctctctc

FIGURE 7B

2761 cgggaatggg tcattggacgg aacctgtgtt cttctacgtc caggccaaa|a cgacatatga
exon 14
2821 aaacttcacg catctgatca tcgccctacc agtggccgtt ctgttgatag taggagggtt
2881 ggttataatg ttgtacgtct tccacagaaa gaga|aataac agcaggctgg ggaatggagt
exon 15
2941 gctgtatgct tccgtgaacc cggagtactt cagcgcagct gat|gtgtacg tgcccgcagc
exon 16
3001 gtgggagggtc gcccgggaga agatcacat gagccgggag ctgggacagg gtccttcgg
Primer 14
3061 gatggtttat gaaggcgtcg ccaaSggYgt ggtcaaagat gagcctgaga ccagggtggc
SNP3085 SNP3088
3121 cattaagaca gtgaatgagg ccgccagcat gcgYgagagg attgagtttc tcaacgaggc
SNP3154 Primer 15
3181 ctccgtgatg aaggagtcca actgtcacca cgtg|GTGAGGGAAGGGCCCCAAG
Primer 16 Intron 16
GGTTGGGRCCACCCTTATGGGTTTGGGACTCATCCTGTCTCTGTAGGATCC
CTSTCACTGCTCAAGAAGGTTGGGGGGGATGTGCA
SNP16i27 SNP16i73
GGTCCAGGGAGTCTGGTGCCACATCATCCAGGGTTGCTCAGGGTGGTCCT
GGTGGGGTTGGGGGGGCTGCGGGGGCTCACCCCCTGTCTCCTTCTCTTTCCC
CCTCACAG|gtgcgg ctgctgggtg tgggtgccca
exon 17
3241 gggccagcca acgctggta tcattggaact gatgaccgg ggggacctca aaagtatat
Primer 17
3301 ccggtctctg agaccagaaa tggag|aataa tccagtccta gcacctcaa gcctaagcaa
exon 18
3361 aatgatccag atggctggag agatYgcaga tggcatggca tacctcaacg ccaataagtt
Primer 18 SNP3385 Primer 20 Primer 19
3421 tgtccacaga gacctcgtg cccggaactg Yatggggccc gaagacttca cagtcaaaat
SNP3451 Primer 21
3481 cgga|gatttt gggatgacga gagacatcta tgagacagac tattaccgca agggagggaa
exon 19
3541 agggctgctg cctgtgcgt ggtgtcccc tgagtcctc aaggacggag tcttcaccac
3601 gcactctgat gtctgg|tctt tcgggtcgt cctctgggag attgccacgc tggccgagca
exon 20
3661 gccataccag ggcttgcca acgagcaagt ccttcgcttc gtcattggagg gcggccttct
3721 ggacaagccg gacaactgct ccgacatgct g|tttgaVctg atgcgcatgt gctggcagta
SNP3757 exon 21
3781 caaccccaag atgaggcctt ccttcctgga gatcatcagc agcatcaagg aYgagatgga
Primer 22 SNP3832
3841 gcctggcttc cgggaggtct cttctacta cagtgaggag aacaagccgc ctgagccgga
3901 ggagctggac ctggagccgg agaacatgga gagcgtcccc ctggaccctt cggcctcctc
3961 gtctccctg ccgctgccc acagacactc aggacacaag gctgagaacg gccaggcccc
4021 tggcgtgctg gtgctgcgag ccagcttcca cgagagacag ccttacgcgc acatgaacgg
4081 gggccgcaag aacgagcggg cctgcctct gcccagtc tcgacctgct gatcctggat
Primer 23
4141 cccgatcccc tgcaaacagt accgtgcgca cgccggcggg cgggggggaga gttttaacaa
4201 tctattcaca agcctcctgt acctcagtg atcttc

FIGURE 7C